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PROJECT SPACE TRACK

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A CATALOGUE OF POSITIONAL DATA OF THE
RUSSIAN ARTIFICIAL EARTH SATELLITE DELTA I
(Sputnik III Rocket Body)

VOLUME I OF III
(Tabulation of Individual Observations, and
Air Force Sightings, 16 May to 20 May 1958)

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UNITED STATES AIR FORCE

AFCRC-TN-60-232 (I)
GRDST-11

PROJECT SPACE TRACK

A CATALOGUE OF POSITIONAL DATA OF THE
RUSSIAN ARTIFICIAL EARTH SATELLITE DELTA I
(Sputnik III Rocket Body)

Volume I of III
(Tabulation of Individual Observations, and
Air Force Sightings, 16 May to 20 May 1958).

W. S. Ripley

1 January 1960

Space Flight Physics Laboratory
GEOPHYSICS RESEARCH DIRECTORATE
AIR FORCE CAMBRIDGE RESEARCH CENTER
AIR RESEARCH AND DEVELOPMENT COMMAND
UNITED STATES AIR FORCE
Bedford, Mass.

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ABSTRACT

This catalogue (published in three volumes) contains approximately 100,000 positional data observed during the life of the Russian earth satellite 1958 Delta I (Sputnik III Rocket Body). These data, collected by Space Track, are from two types of sources; those sent in by individuals and various organizations from all over the world and those produced by United States Air Force facilities. The positional data are arranged chronologically with observation station names and coordinates.

A CATALOGUE OF POSITIONAL DATA OF THE RUSSIAN ARTIFICIAL EARTH SATELLITE 1958 DELTA I

Introduction

This publication contains approximately 100,000 optical and radar observations of the Russian artificial earth satellite 1958 Delta I (rocket carrier). The catalogue covers the lifetime of this satellite from its launching on 15 May 1958 to its decay on 3 December 1958. These data were collected by Space Track from both military and civilian sources. A small portion of the material has previously been published in a report covering the decay phase by Space Track⁽¹⁾ and in partial preliminary reports of the Smithsonian Astrophysical Observatory⁽²⁾. By far the largest portion of the data of this catalogue were observed by the range facilities of the Patrick Air Force Base, Florida, and Edwards Air Force Base, California. The general nature of the material is the same as that published by Space Track for the satellite 1957 Beta⁽³⁾. The responsibility for the quality of the data, as in the latter report, rests with the sources --- the catalogues being essentially a compilation of data as received (except for these omitted because of obvious error in transmission). A number of satellite positions were determined at Space Track by Dr. Nannielou H. Dieter and Dr. H. Beat Wackernagel from photographic film provided by the Department of Physics, Iowa State College, Ames, Iowa, and Mr. Jasper Trier, Copenhagen, Denmark.

It should be pointed out that positive identification of the two components (carrier and nose cone) of 1958 Delta may be doubtful during the first few days after launching, and possibly on a few occasions later. Consequently, a few data listed in this catalogue may belong to 1958 Delta 2, and similarly some 1958 Delta I data may be found in a future catalogue on 1958 Delta 2.

Description of Catalogue

The catalogue, in three volumes, consists of a chronological listing of individual data, as well as long sequences of data for single satellite passages produced at range stations of Patrick Air Force Base and Edwards Air Force Base. These sequences are usually presented for fixed time intervals such as every second or less.

In the section of the first volume of the catalogue containing the listing of individual observations, the following information is given: the station name in abbreviated form, its geographic coordinates (longitude in degrees east of Greenwich), the station height (in meters, when known), the observation time in Greenwich Mean Time (GMT), the observed coordinates of the satellite and --- if a radar observation --- the slant range (in kilometers). The satellite coordinates are listed either in azimuth (in degrees, minutes, and seconds of arc, counted from north through east) and elevation angle, or in right ascension (in hours, minutes and seconds of time) and declination angle. Data given in right ascension and declination are noted by an asterisk.

In the sections of the catalogue presenting the Air Force Sightings each individual data sequence is identified by date, range station, its geographic coordinates, and station height in meters above sea level. Time is in Greenwich Mean Time and the satellite coordinates are shown as azimuth and elevation angles. The Patrick Air Force data were obtained by use of the optical tracker section of the 584 Radar, and from theodolites. The Edwards Air Force data are from theodolites. In the column heads, the instrumentation type is indicated by Opt Tr or Theod, whichever the case may be.

REFERENCES

- (1) E. W. Wahl and W. A. Delaney, "The Orbital Motion of the Earth Satellite 1958-Delta One During the Last Days of its Existence." AFCRC-TN-58-662, Astia Doc. No. AD-209251, January 1959.
- (2) Smithsonian Institution Astrophysical Observatory, Cambridge, Mass.
Special Report No. 14, July 1958
Special Report No. 18, October 1958
Special Report No. 20, January 1959
Special Report No. 21, April 1959
- (3) G. R. Miczalka, W. S. Ripley, and E. W. Wahl, "A Catalogue of Positional Data of the Russian Artificial Earth Satellite 1957 Beta." AFCRC-TN-58-640, Astia Doc. No. AD-213318, December 1958.

Air Force Sightings (16 May 1958 to 20 May 1958)

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
16 MAY 1958							
C CNAV F FLA	28 27 58 N	279 24 38		01 03 00.06	102 58 48	40 19 48	
HARRISONBG VA	38 28 20 N	281 08 00	463	01 03 33.00	000 00 00	90 00 00	
DECATUR B GA	33 47 27 N	275 42 57	323	01 04 30.00	014 05 00 *	18 30 00 *	
C CNAV F FLA	28 27 58 N	279 24 38		01 06 30.00	028 13 48	42 16 48	
C CNAV F FLA	28 27 58 N	279 24 38		01 07 00.00	041 49 48	46 38 24	
WPALMB A FLA	26 39 30 N	279 24 38	5	01 07 21.00	090 00 00	44 00 00	
C CNAV F FLA	26 39 30 N	279 24 38		01 07 30.43	057 46 48	49 02 24	
GRD BOMB RM	34 N	281 39 06		01 08 00.00	103 30 00	44 52 12	
S PTRSBG FLA	27 46 40 N	277 16 00	15	01 08 00.00	013 14 00 *	05 18 00 *	
C CNAV F FLA	28 27 58 N	279 24 38		01 08 30.00	088 21 36	46 46 48	
C CNAV F FLA	28 27 58 N	279 24 38		01 09 00.00	099 48 70	43 16 12	
C CNAV F FLA	28 27 58 N	279 24 38		01 09 30.00	108 28 12	39 20 24	
C CNAV F FLA	28 27 58 N	279 24 38		01 10 00.00	115 06 36	35 27 36	
C CNAV F FLA	28 27 58 N	279 24 38		01 10 30.00	120 06 36	31 48 00	
C CNAV F FLA	28 27 58 N	279 24 38		01 11 00.00	124 01 48	28 27 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 15 00.00	090 00 00	40 00 00	
S PTRSBG FLA	27 46 40 N	277 16 00	15	01 23 18.00	015 05 00 *	40 30 00 *	
S PTRSBG FLA	27 46 40 N	277 16 00	15	01 24 52.00	012 57 00 *	28 00 00 *	
S PTRSBG FLA	27 46 40 N	277 16 00	15	01 30 49.00	013 00 00 *	24 00 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	02 49 33.00	012 36 00 *	56 48 00 *	
ST PL B MINN	44 58 30 N	266 45 59	285	02 50 06.50	009 25 10 *	10 20 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	02 50 12.00	013 00 00 *	40 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 50 36.00	009 29 00 *	07 00 00 *	
ST PL B MINN	44 58 30 N	266 45 59	285	02 50 43.50	010 48 30 *	18 00 00 *	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 50 47.40	334 00 00	36 00 00	
KIRTLND C NM	34 50 53 N	253 02 56	1688	02 51 00.00	000 00 00	90 00 00	
S AN RAFB TX	29 32 06 N	261 42 33	232	02 51 30.00	011 17 30 *	31 00 00 *	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 51 36.00	335 00 00	49 00 00	
ST PL B MINN	44 58 30 N	266 45 59	285	02 51 43.50	207 12 00	17 45 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 52 15.00	335 00 00	63 30 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 52 58.20	335 30 00	81 00 00	
EDINBURG TEX	26 18 20 N	261 49 39	26	02 53 21.40	225 00 00	89 30 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 53 33.60	153 30 00	84 30 00	
ST PL B MINN	44 58 30 N	266 45 59	285	02 57 30.00	180 00 00	03 00 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 14 00.00	000 00 00	37 36 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 35 35.00	266 06 00	42 48 00	
SAN JOSE CAL	37 23 01 N	238 11 13	122	04 36 04.00	008 42 00 *	12 45 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	04 36 05.00	256 06 00	44 00 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 36 25.00	241 54 00	45 06 00	
SAN JOSE CAL	37 23 01 N	238 11 13	122	04 36 47.00	009 38 00 *	04 40 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	04 37 00.00	230 24 00	44 12 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 37 20.00	221 24 00	42 48 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 37 40.00	214 24 00	41 00 00	
WLNTCK A CAL	37 55 30 N	237 55 30	10	04 38 00.00	010 36 30 *	12 06 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	04 38 00.00	207 48 00	38 42 00	
LOSALTOS CAL	37 23 56 N	237 52 34	29	04 38 16.00	010 50 00 *	15 00 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	04 38 20.00	202 36 00	36 30 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 38 40.00	198 12 00	34 00 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 39 00.00	194 24 00	31 48 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 39 15.00	191 54 00	30 06 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 40 00.00	186 00 00	25 24 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 40 15.00	184 36 00	24 12 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 40 30.00	183 48 00	22 24 00	
SNFRISCO CAL	37 46 10 N	237 32 07	76	04 40 40.00	012 06 00 *	22 00 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	04 40 45.00	181 54 00	21 30 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 41 00.00	180 48 00	20 12 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 41 15.00	179 42 00	19 06 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 41 30.00	178 48 00	18 00 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 41 45.00	177 54 00	17 00 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 42 00.00	177 00 00	15 54 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 42 15.00	176 18 00	14 12 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 42 30.00	175 42 00	14 00 00	
STFD RES CAL	37 24 11 N	237 49 29	152	04 42 45.00	013 00 00	13 00 00	
CHIN LAK CAL	35 39 25 N	242 20 13	701	04 42 46.00	011 38 00 *	34 30 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	04 43 00.00	174 24 00	12 06 00	
WHTIER A CAL	33 58 40 N	241 58 25	149	04 43 12.00	012 20 00 *	40 00 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	04 46 30.00	359 06 00	37 36 00	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 27 25.32	014 27 24 *	05 38 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 27 25.38	014 27 30 *	05 48 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 27 44.33	014 29 18 *	00 59 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
16 MAY 1958 (CONT)							
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 28 03.88	014 31 00 *	- 02 59 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	11 41 17.00	010 06 00 *	11 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	11 42 58.00	011 25 00 *	- 14 00 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	14 45 28.00	156 36 00	08 30 00	1122
MIL RAO MASS	42 37 03 N	288 30 28	155	14 46 02.80	143 00 00	11 00 00	956
MIL RAO MASS	42 37 03 N	288 30 28	155	14 46 25.50	133 18 00	12 24 00	898
MIL RAO MASS	42 37 03 N	288 30 28	155	14 46 58.90	115 00 00	13 00 00	849
MIL RAD MASS	42 37 03 N	288 30 28	155	14 47 30.00	098 06 00	11 42 00	880
MIL RAD MASS	42 37 03 N	288 30 28	155	14 48 03.00	083 06 00	09 24 00	986
MIL RAO MASS	42 37 03 N	288 30 28	155	14 48 29.50	074 00 00	06 54 00	1116
MIL RAD MASS	42 37 03 N	288 30 28	155	14 48 38.00	070 54 00	06 24 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	14 49 01.10	065 48 00	04 30 00	1282
MIL RAO MASS	42 37 03 N	288 30 28	155	14 49 31.80	059 12 00	02 12 00	1473
MIL RAD MASS	42 37 03 N	288 30 28	155	14 49 58.40	055 00 00	00 05 00	1653
TUCSON ARIZ	32 13 59 N	249 03 51	227	15 36 24.00	171 00 00	28 00 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	16 35 16.00	311 48 00	07 42 00	1047
MIL RAO MASS	42 37 03 N	288 30 28	155	16 35 25.00	314 00 00	07 36 00	1054
MIL RAD MASS	42 37 03 N	288 30 28	155	16 35 27.10	315 18 00	07 30 00	1046
MIL RAD MASS	42 37 03 N	288 30 28	155	16 35 55.00	327 42 00	06 54 00	1073
MIL RAD MASS	42 37 03 N	288 30 28	155	23 52 13.20	329 00 00	04 48 00	2112
17 MAY 1958							
WASH 8EHL OC	38 49 13 N	282 59 31		01 43 18.00	007 18 00 *	16 48 00 *	
BRYN ATHN PA	40 08 00 N	284 56 00	85	01 44 10.00	270 00 00	20 00 00	
WASH 8EHL OC	38 49 13 N	282 59 31		01 44 10.00	007 55 00 *	09 48 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	01 44 57.00	007 48 00 *	29 00 00 *	
LANSG A MICH	42 44 00 N	275 31 00	261	01 45 00.00	270 00 00	40 00 00	
N CANTON 8 O	41 04 50 N	278 26 02		01 45 53.00	009 32 00 *	- 05 40 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	01 46 03.00	242 30 00	14 42 00	2170
WASH 8EHL OC	38 49 13 N	282 59 31		01 46 30.00	009 22 00 *	- 09 06 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	01 47 06.00	229 24 00	14 42 00	2297
MIL RAO MASS	42 37 03 N	288 30 28	155	01 47 21.00	228 24 00	13 54 00	2346
MIL RAO MASS	42 37 03 N	288 30 28	155	01 47 41.00	225 54 00	13 30 00	2425
WASHGTON A OC	38 45 30 N	282 47 30	69	01 47 42.00	222 00 00	27 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	01 48 00.00	223 00 00	12 30 00	2477
WPALH8 A FLA	26 39 30 N	279 55 20	5	01 48 16.00	270 00 00	57 00 00	
EGLN AF8 FLA	30 33 00 N	273 22 41		01 48 30.00	165 54 00	58 02 24	
EGLN AF8 FLA	30 33 00 N	273 22 41		01 48 35.00	165 31 48	56 49 12	
EGLN AF8 FLA	30 33 00 N	273 22 41		01 48 40.00	164 26 24	55 37 48	
EGLN AF8 FLA	30 33 00 N	273 22 41		01 48 45.00	164 36 00	54 10 48	
EGLN AF8 FLA	30 33 00 N	273 22 41		01 48 50.00	162 55 12	53 03 36	
EGLN AF8 FLA	30 33 00 N	273 22 41		01 48 54.00	162 09 36	52 22 12	
MIL RAO MASS	42 37 03 N	288 30 28	155	01 50 26.00	206 00 00	08 24 00	3099
BRISTOL TENN	36 35 03 N	277 50 31	527	01 50 55.00	178 30 00	17 30 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	01 50 56.00	202 54 00	06 06 00	3249
MIL RAO MASS	42 37 03 N	288 30 28	155	01 51 12.00	201 36 00	05 42 00	3339
WASH 8EHL OC	38 49 13 N	282 59 31		01 51 20.00	011 52 00 *	- 33 00 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	03 30 00.00	005 55 00 *	36 48 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 30 35.00	011 19 00 *	55 00 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	03 30 49.50	359 00 00	84 00 00	
CHIN LAK CAL	35 39 25 N	242 20 13	701	03 30 55.90	000 00 00	87 00 00	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 31 22.00	012 06 00 *	39 36 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 31 36.00	012 08 00 *	33 42 00 *	
L ALAMOS NM	35 52 30 N	253 40 40	2256	03 32 10.00	008 56 00 *	06 00 00 *	
L ALAMOS NM	35 52 30 N	253 40 40	2256	03 32 27.00	009 11 00 *	02 12 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 32 58.00	012 52 00 *	03 36 00 *	
L CRUC 8 NM	32 19 16 N	253 12 15	1180	03 35 00.00	010 47 00 *	- 16 00 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 35 18.00	013 22 00 *	- 22 00 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	03 36 24.00	171 00 00	28 00 00	
EOW AF O CAL	34 56 43 N	242 04 58	785	04 28 08.00	334 44 34	23 22 40	
EOW AF D CAL	34 56 43 N	242 04 58	785	04 29 00.00	336 25 37	35 11 42	
EOW AF D CAL	34 56 43 N	242 04 58	785	04 30 00.00	341 01 44	55 54 18	
EOW AF O CAL	34 56 43 N	242 04 58	785	04 31 00.00	018 51 00	81 43 48	
EOW AF O CAL	34 56 43 N	242 04 58	785	04 31 12.00	064 27 61	83 59 34	
EOW AF O CAL	34 56 43 N	242 04 58	785	04 31 18.00	089 51 46	83 60 00	
EOW AF O CAL	34 56 43 N	242 04 58	785	04 32 00.00	137 19 48	67 19 48	
EOW AF O CAL	34 56 43 N	242 04 58	785	04 33 00.00	145 20 24	48 09 00	
MAUI HAWAII	20 42 36 N	203 44 23	3048	07 10 37.36	011 27 54 *	- 26 13 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	07 11 00.26	011 37 54 *	- 29 42 00 *	
HIROSHIMA J	34 22 08 N	132 28 10	3	10 32 24.00	011 00 00 *	82 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR PST ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 MAY 1958 (CONT)							
MITAKA J	35 40 20 N	139 32 30	50	10 32 35.20	311 20 00	29 30 00	
SENDAI J	38 15 22 N	140 51 56	45	10 32 43.00	284 54 00	24 54 00	
TOYOHASHI J	34 45 09 N	137 24 37	16	10 33 25.00	009 30 00 *	53 00 00 *	
TOKUSHIMA J	34 07 34 N	134 35 32	1	10 33 27.00	000 00 00	65 00 00	
SUWA J	36 00 13 N	138 07 43	762	10 33 29.00	008 14 00 *	44 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	10 33 30.40	294 18 00	56 36 00	
SUWA J	36 00 13 N	138 07 43	762	10 33 41.00	009 38 00 *	40 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	10 33 55.00	011 00 00 *	57 00 00 *	
MUSASHINO J	35 42 58 N	139 34 35	75	10 34 01.00	270 00 00	66 00 00	
TAKADA J	37 06 38 N	138 15 22	23	10 34 04.00	010 14 00 *	24 00 00 *	
NAGOYA J	35 08 57 N	136 59 11	50	10 34 14.00	270 00 00	83 30 00	
MITAKA J	35 40 20 N	139 32 30	50	10 34 14.80	257 30 00	67 30 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	10 34 23.00	011 10 00 *	32 00 00 *	
HASHIMOTO J	34 19 02 N	135 37 03	125	10 34 25.00	011 05 00 *	41 00 00 *	
KASUKABE J	35 58 36 N	139 44 34	5	10 34 28.00	195 30 00	40 00 00	
MIZUKAIDO J	36 00 56 N	139 59 18	12	10 34 31.00	010 10 00 *	21 00 00 *	
NAGOYA J	35 08 57 N	136 59 11	50	10 34 33.00	180 00 00	80 30 00	
MANAZURU 1 J	35 09 23 N	139 08 46	25	10 34 35.00	010 21 00 *	26 00 00 *	
KURMEMACHI J	35 45 18 N	139 31 48	52	10 34 40.00	225 00 00	67 30 00	
MUSASHINO J	35 42 58 N	139 34 35	75	10 34 42.00	225 00 00	67 00 00	
MITAKA J	35 40 20 N	139 32 30	50	10 34 51.80	215 12 00	65 54 00	
TOYOHASHI J	34 45 09 N	137 24 37	16	10 35 03.00	011 25 00 *	17 00 00 *	
CHUNICHI J	35 10 23 N	136 54 14	25	10 35 04.00	011 43 00 *	15 00 00 *	
HONJO J	36 14 25 N	139 11 05	56	10 35 20.00	010 05 00 *	14 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 35 35.00	014 18 00 *	20 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	10 35 42.60	186 00 00	53 36 00	
KIRYU J	36 24 22 N	139 19 54	110	10 36 01.00	180 00 00	49 00 00	
MIZUKAIDO J	36 00 56 N	139 59 18	12	10 36 14.00	180 00 00	45 00 00	
NIIGATA J	37 55 05 N	139 02 21	24	10 36 25.00	180 00 00	34 00 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	10 36 34.00	013 04 00 *	- 07 00 00 *	
HIROSHIMA J	34 22 08 N	132 28 10	3	10 36 41.00	013 29 00 *	- 08 00 00 *	
SUWA J	36 00 13 N	138 07 43	762	10 36 48.00	012 19 00 *	- 15 00 00 *	
KASUKABE J	35 58 36 N	139 44 34	5	10 36 50.00	195 30 00	64 00 00	
MITAKA J	35 40 20 N	139 32 30	50	10 36 53.70	172 12 00	38 12 00	
IKOMA J	34 40 34 N	135 40 23	634	10 36 54.60	013 00 00 *	10 00 00 *	
TAOOTSU J	34 16 20 N	133 45 16	5	10 36 55.00	013 25 00 *	- 11 00 00 *	
HASHIMOTO J	34 19 02 N	135 37 03	125	10 37 08.00	013 03 00 *	- 12 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	10 37 21.00	012 17 00 *	- 22 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	10 37 25.80	169 18 00	33 06 00	
SUWA J	36 00 13 N	138 07 43	762	10 38 18.00	012 42 00 *	- 26 00 00 *	
MIZUKAIDO J	36 00 56 N	139 59 18	12	10 38 31.00	225 00 00	64 00 00	
KURMEMACHI J	35 45 18 N	139 31 48	52	10 38 34.00	225 00 00	62 00 00	
OTSU J	35 00 24 N	135 52 08	90	10 38 37.00	158 00 00	22 00 00	
OTSU J	35 00 24 N	135 52 08	90	10 38 39.00	160 00 00	21 00 00	
YAMAGATA J	38 15 16 N	140 20 59	151	10 38 43.00	273 00 00	44 30 00	
KONKO J	34 32 31 N	133 37 40	4	10 39 07.00	011 12 00 *	55 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	10 39 24.00	265 48 00	44 54 00	
FUCHU J	34 34 17 N	133 14 19	30	10 39 42.00	045 00 00	77 30 00	
MIZUKAIDO J	36 00 56 N	139 59 18	12	10 40 22.00	225 00 00	60 00 00	
KURMEMACHI J	35 45 18 N	139 31 48	52	10 40 31.00	225 00 00	60 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	12 22 50.00	008 27 00 *	- 03 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	12 22 51.00	008 23 00 *	- 09 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	12 24 56.00	009 27 00 *	- 20 00 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	16 17 31.00	208 00 00	15 30 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	17 04 34.00	147 77 29	35 33 60	
EDW AF D CAL	34 56 43 N	242 04 58	785	17 04 38.00	150 80 25	11 34 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	17 35 00.00	149 03 04	26 55 26	
EDW AF D CAL	34 56 43 N	242 04 58	785	17 36 00.00	149 80 18	20 37 16	
EDW AF D CAL	34 56 43 N	242 04 58	785	17 39 00.00	151 09 28	08 36 21	
EDW AF D CAL	34 56 43 N	242 04 58	785	17 37 00.00	150 38 00	15 40 12	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	19 34 31.00	010 17 00 *	- 20 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	19 36 34.00	011 54 00 *	- 13 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	19 37 21.70	012 17 00 *	- 22 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	19 37 51.00	012 23 00 *	- 24 18 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	21 22 51.00	008 23 00 *	- 09 24 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
16 MAY 1958							
C CNAV G FLA	28 16 17 N	279 23 37	11	00 48 00.00	137 46 12	12 53 24	
C CNAV G FLA	28 16 17 N	279 23 37	11	01 24 00.00	203 28 48	46 40 12	
ALBUQ A NM	35 05 03 N	253 21 24	1520	02 25 22.00	012 11 45 *	43 54 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	02 25 34.00	008 49 30 *	08 03 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	02 25 44.00	009 02 30 *	05 35 00 *	
ST LOUIS MO	38 37 59 N	269 48 09	152	02 26 50.00	008 33 24 *	03 24 00 *	
OAYTON 8 O	39 50 14 N	275 44 03	249	02 27 20.00	008 05 00 *	- 03 00 00 *	
S AN RAFB TX	29 32 06 N	261 42 33	232	02 28 39.40	010 43 00 *	12 48 00 *	
S AN RAFB TX	29 32 06 N	261 42 33	232	02 30 31.50	012 19 00 *	- 18 06 00 *	
8TSLSVL 8 OKL	36 44 48 N	264 04 12		03 28 55.00	012 15 00 *	- 00 30 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	04 11 47.50	009 03 00 *	06 00 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	04 12 25.00	007 23 00 *	09 30 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	04 12 35.00	007 39 06 *	03 40 00 *	
OAKLAND CAL	37 47 00 N	237 48 00	30	04 13 14.00	010 12 00 *	- 11 20 00 *	
LOSALTOS CAL	37 23 56 N	237 52 34	29	04 13 19.00	010 08 00 *	- 12 00 00 *	
SAN JOSE CAL	37 23 01 N	238 11 13	122	04 13 22.00	010 08 00 *	- 11 50 00 *	
L CRUC 8 NM	32 19 16 N	253 12 15	1180	04 13 25.00	007 46 00 *	03 30 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	04 13 40.40	009 25 00 *	- 09 00 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	04 13 48.00	010 06 00 *	- 12 00 00 *	
SAN JOSE CAL	37 23 01 N	238 11 13	122	04 14 04.00	011 10 00 *	- 21 08 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	04 14 16.00	008 13 00 *	- 03 00 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	04 14 45.00	011 00 24 *	- 25 18 00 *	
L CRUC 8 NM	32 19 16 N	253 12 15	1180	04 15 27.00	008 43 00 *	- 12 00 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	04 16 00.00	011 31 00 *	- 32 21 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	04 16 35.00	009 12 00 *	- 21 00 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	04 17 31.00	208 00 00	15 30 00	
CHIN LAK CAL	35 39 25 N	242 20 13	701	04 18 14.20	011 30 00 *	- 40 12 00 *	
EDINBURG TEX	26 18 20 N	261 49 39	28	10 26 17.20	180 00 00	65 00 00	
HONJO J	36 14 25 N	139 11 05	56	10 56 03.00	257 00 00	27 42 00	
HONJO J	36 14 25 N	139 11 05	56	11 05 25.00	357 00 00	30 30 00	
SENOAI J	38 15 22 N	140 51 56	45	11 14 15.00	262 00 00	19 12 00	
MUSASHINO J	35 42 58 N	139 34 35	75	11 14 20.90	270 00 00	20 42 00	
MITAKA J	35 40 20 N	139 32 30	50	11 14 23.30	270 54 00	20 54 00	
KIRYU J	36 24 22 N	139 19 54	110	11 14 44.00	260 00 00	24 00 00	
NIIGATA J	37 55 05 N	139 02 21	24	11 15 18.00	245 00 00	22 00 00	
MITAKA J	35 40 20 N	139 32 30	50	11 15 24.00	255 24 00	23 48 00	
SENOAI J	38 15 22 N	140 51 56	45	11 15 50.00	241 54 00	25 00 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	11 15 55.00	008 29 00 *	- 03 00 00 *	
TAKAOA J	37 06 38 N	138 15 22	23	11 16 02.00	008 29 00 *	- 02 00 00 *	
SENOAI J	38 15 22 N	140 51 56	45	11 16 24.00	234 00 00	20 12 00	
KANAZAWA J	36 32 45 N	136 41 01	80	11 16 32.00	009 12 00 *	- 12 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	11 16 55.80	233 12 00	23 54 00	
SAPPORO J	43 04 49 N	141 22 13	20	11 17 03.00	009 31 00 *	- 23 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	11 17 19.00	009 43 00 *	- 26 00 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 32 11.00	007 55 00 *	30 12 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 34 15.00	010 04 00 *	01 30 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 38 00.00	011 40 00 *	- 30 12 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	20 15 55.00	008 29 42 *	- 03 24 00 *	
19 MAY 1958							
MANHATTN KAN	39 09 45 N	263 31 09	311	01 09 24.00	009 25 30 *	25 40 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	01 22 24.00	270 00 00	53 00 00	
L CRUC 8 NM	32 19 16 N	253 12 15	1180	03 01 15.00	009 30 00 *	53 00 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 01 42.00	011 53 00 *	43 00 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	03 05 33.00	007 48 50 *	19 29 00 *	
L CRUC 8 NM	32 19 16 N	253 12 15	1180	03 05 41.00	007 34 00 *	28 00 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	03 06 14.00	270 00 00	59 36 00	
SACMTO PK NM	32 47 14 N	254 10 47	2823	03 06 28.80	008 27 00 *	14 30 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	03 06 53.00	008 46 00 *	11 00 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	03 07 13.00	221 00 00	61 18 00	
ORGN P SS NM	32 25 24 N	253 26 51	1651	03 07 21.18	009 02 48 *	05 12 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	03 07 29.19	009 09 42 *	03 19 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	03 07 37.20	009 16 06 *	01 27 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 08 39.00	010 07 00 *	- 12 00 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 09 04.00	010 22 00 *	- 16 30 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 09 49.00	010 49 00 *	- 25 00 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	03 11 01.20	192 30 00	13 00 00	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 11 39.00	011 36 00 *	- 36 00 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 14 32.00	012 25 00 *	- 47 00 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	03 42 30.00	008 42 30 *	06 06 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
19 MAY 1958 (CONT)							
WLNTCK A CAL	37 55 30 N	237 55 30	10	04 53 44.00	008 41 00 *	- 15 00 00 *	
LOSALTOS CAL	37 23 56 N	237 52 34	29	04 53 50.00	008 42 00 *	- 14 00 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 10 14.24	020 01 12 *	- 22 10 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 10 18.24	020 10 48 *	- 21 39 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 10 26.24	020 32 12 *	- 20 30 00 *	
20 MAY 1958							
ST LOUIS MO	38 37 59 N	249 48 09	152	01 57 50.00	007 16 00 *	14 24 00 *	
S ANT A TEX	29 27 48 N	261 30 56	256	02 00 30.00	010 10 34 *	28 30 17 *	
EOINBURG TEX	26 18 20 N	261 49 39	28	02 01 41.30	225 00 00	82 30 00	
EOINBURG TEX	26 18 20 N	261 49 39	28	02 01 44.80	225 00 00	81 00 00	
S ANT A TEX	29 27 48 N	261 30 56	256	02 02 10.00	011 38 00 *	- 04 48 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	02 12 25.00	007 32 00 *	03 50 00 *	
ALBUQ B NM	35 06 37 N	253 27 47	1667	03 45 03.00	007 08 30 *	05 42 00 *	
L ANGLS CAL	33 59 41 N	241 45 43	61	03 45 15.00	008 40 00 *	04 00 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	03 45 41.40	007 56 00 *	03 06 00 *	
L ANGLS CAL	33 59 41 N	241 45 43	61	03 46 05.00	009 20 00 *	00 00 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 46 59.00	007 34 00 *	05 00 00 *	
L ANGLS CAL	33 59 41 N	241 45 43	61	03 47 47.00	009 35 00 *	- 04 00 00 *	
L CRUC B NM	32 19 16 N	253 12 15	1180	03 48 41.00	008 36 00 *	- 16 00 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	03 53 44.80	180 00 00	05 00 00	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 34 29.41	013 28 06 *	19 36 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 50 16.30	012 15 24 *	21 04 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	07 22 05.50	008 15 12 *	- 06 31 00 *	
MIZUKAIOO J	36 00 56 N	139 59 18	12-	10 46 08.00	006 33 00 *	14 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	10 48 51.00	009 23 00 *	- 08 00 00 *	
MIE J	34 58 10 N	136 37 19	3	10 49 24.00	225 00 00	28 00 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	10 49 38.00	009 13 00 *	- 13 00 00 *	
MIZUKAIOO J	36 00 56 N	139 59 18	12	10 50 02.00	225 00 00	21 00 00	
MANAZURU I J	35 09 23 N	139 08 46	25	10 50 35.00	009 24 00 *	- 20 00 00 *	
SUWA J	36 00 13 N	138 07 43	762	10 50 39.00	009 37 00 *	- 24 00 00 *	
ICHINOMIYA J	35 17 32 N	136 48 42	8	10 52 49.00	010 20 00 *	- 47 00 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 05 44.50	008 50 15 *	16 37 48 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 05 52.40	008 57 06 *	14 33 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 06 08.30	009 11 24 *	10 15 21 *	
AOLAIO C AUS	34 44 00 S	138 40 00		18 45 23.00	002 54 00 *	- 30 30 00 *	
AOLAIO A AUS	34 55 14 S	138 36 14	55	20 32 18.50	133 00 00	36 00 00	
21 MAY 1958							
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 38 23.00	003 08 00 *	- 24 00 00 *	
AOLAIO C AUS	34 44 00 S	138 40 00		19 24 26.00	154 30 00	18 00 00	
AOLAIO A AUS	34 55 14 S	138 36 14	55	19 24 34.00	154 30 00	18 30 00	
AOLAIO C AUS	34 44 00 S	138 40 00		19 24 36.00	156 30 00	18 00 00	
AOLAIO A AUS	34 55 14 S	138 36 14	55	19 24 39.50	156 30 00	17 00 00	
22 MAY 1958							
MIL RAO MASS	42 37 03 N	288 30 28	155	13 22 02.20	162 18 00	05 48 00	1203
CURACAO NWI	12 09 04 N	291 03 28	6	19 19 24.00	270 00 00	27 00 00	
23 MAY 1958							
PRET B S AF	25 43 43 S	028 12 42	1311	03 05 42.00	003 18 00 *	- 43 12 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 05 46.00	003 10 00 *	- 42 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	10 58 33.00	008 30 00 *	- 28 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	10 59 33.00	009 42 00 *	- 42 00 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	18 11 14.80	010 52 30 *	34 24 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	18 12 35.00	011 12 00 *	26 00 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	18 13 51.00	011 35 00 *	15 00 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	18 14 09.00	011 35 00 *	11 24 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	18 14 28.00	011 44 00 *	08 36 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	18 14 42.60	011 47 00 *	07 12 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	18 15 03.00	011 52 00 *	03 30 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	20 40 15.05	162 38 45	45.03 10	
WOOMER AUS	31 06 07 S	136 47 07	162	20 40 31.38	157 10 15	47 54 14	
WOOMER AUS	31 06 07 S	136 47 07	162	20 40 34.70	155 56 31	48 20 42	
WOOMER AUS	31 06 07 S	136 47 07	162	20 40 49.00	150 06 57	50 00 25	
WOOMER AUS	31 06 07 S	136 47 07	162	20 41 04.20	148 05 24	51 29 38	
WOOMER AUS	31 06 07 S	136 47 07	162	20 41 20.54	134 51 18	52 35 24	
WOOMER AUS	31 06 07 S	136 47 07	162	20 41 35.10	126 53 56	53 01 04	
WOOMER AUS	31 06 07 S	136 47 07	162	20 42 08.84	107 54 46	51 41 24	

STATION		LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
23 MAY 1958 (CONT)								
WOOMER	AUS	31 06 07 S	136 47 07	162	20 42 23.93	099 50 38	50 08 45	
WOOMER	AUS	31 06 07 S	136 47 07	162	20 42 39.77	092 25 48	47 56 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	20 42 56.45	085 22 51	45 12 39	
WOOMER	AUS	31 06 07 S	136 47 07	162	20 43 11.46	079 53 38	42 32 42	
WOOMER	AUS	31 06 07 S	136 47 07	162	20 43 34.42	072 57 36	38 11 52	
WOOMER	AUS	31 06 07 S	136 47 07	162	20 43 58.17	067 17 24	33 45 00	
WOOMER	AUS	31 06 07 S	136 47 07	162	20 44 12.57	064 18 36	31 07 30	
WOOMER	AUS	31 06 07 S	136 47 07	162	20 44 22.32	062 23 24	29 18 25	
24 MAY 1958								
UNION JOHSBG		26 10 55 S	028 04 30	1806	03 42 32.50	002 38 00 *	- 68 30 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	03 43 47.20	002 13 00 *	- 51 48 00 *	
PRET B S AF		25 43 43 S	028 12 42	1311	03 47 01.00	002 10 00 *	- 02 42 00 *	
LAPLAT O ARG		34 54 31 S	302 04 03		08 57 19.40	001 49 13 *	- 54 29 06 *	
LAPLAT O ARG		34 54 31 S	302 04 03		08 57 51.30	001 45 24 *	- 48 18 54 *	
LAPLAT O ARG		34 54 31 S	302 04 03		09 02 05.90	001 46 00 *	03 30 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 04 11.00	013 36 00 *	18 12 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 04 41.00	013 35 00 *	16 00 00 *	
KONKO J		34 32 31 N	133 37 40	4	18 30 36.00	019 25 00 *	02 00 00 *	
SYDNEY AUS		33 54 43 S	151 05 41	15	19 31 47.50	022 45 00 *	- 53 00 00 *	
WOOMER	AUS	31 06 07 S	136 47 07	162	19 33 23.58	096 51 54	14 17 42	
WOOMER	AUS	31 06 07 S	136 47 07	162	19 33 32.70	095 24 21	13 41 31	
WOOMER	AUS	31 06 07 S	136 47 07	162	19 33 46.35	093 23 06	12 48 18	
WOOMER	AUS	31 06 07 S	136 47 07	162	19 34 03.52	090 55 15	11 40 12	
PERTH AUS		32 00 07 S	115 51 10	5	21 17 43.00	106 48 00	29 38 00	
25 MAY 1958								
LAPLAT O ARG		34 54 31 S	302 04 03		07 47 06.20	002 21 28 *	- 37 45 18 *	
LAPLAT O ARG		34 54 31 S	302 04 03		07 50 09.30	001 56 59 *	- 11 27 24 *	
LAPLAT O ARG		34 54 31 S	302 04 03		09 31 21.50	015 26 00 *	- 67 19 30 *	
LAPLAT O ARG		34 54 31 S	302 04 03		09 32 02.80	016 00 02 *	- 69 11 54 *	
LAPLAT O ARG		34 54 31 S	302 04 03		09 33 37.60	019 32 53 *	- 65 52 30 *	
LAPLAT O ARG		34 54 31 S	302 04 03		09 34 08.10	020 31 47 *	- 60 41 48 *	
LAPLAT O ARG		34 54 31 S	302 04 03		09 35 52.80	022 35 46 *	- 20 13 30 *	
LAPLAT O ARG		34 54 31 S	302 04 03		09 37 35.10	023 30 08 *	06 53 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 40 36.70	011 22 30 *	15 18 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 41 26.00	011 46 00 *	06 48 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 42 25.20	012 01 12 *	- 03 18 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	17 43 19.94	012 14 00 *	- 14 00 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 43 33.00	012 26 00 *	- 16 24 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	17 44 26.20	012 42 36 *	- 26 44 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 45 11.00	013 10 00 *	- 34 12 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 45 24.00	013 17 00 *	- 36 24 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 46 30.00	013 55 00 *	- 46 12 00 *	
LAPLAT O ARG		34 54 31 S	302 04 03		23 00 04.50	012 45 56 *	06 17 48 *	
LAPLAT O ARG		34 54 31 S	302 04 03		23 00 48.40	012 53 25 *	03 35 42 *	
LAPLAT O ARG		34 54 31 S	302 04 03		23 03 15.80	014 32 03 *	- 20 18 42 *	
26 MAY 1958								
PT RICO A WI		18 10 31 N	292 54 42	408	00 31 00.19	264 20 24	10 35 24	
CPTWN A S AF		33 56 00 S	018 28 37	7	03 06 45.40	002 16 00 *	- 51 42 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	03 09 47.00	002 10 00 *	- 51 48 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	03 11 47.00	002 00 00 *	- 30 00 00 *	
LAPLAT O ARG		34 54 31 S	302 04 03		08 21 24.40	003 10 08 *	- 74 27 42 *	
LAPLAT O ARG		34 54 31 S	302 04 03		08 23 10.00	001 45 08 *	- 53 41 00 *	
LAPLAT O ARG		34 54 31 S	302 04 03		08 23 41.20	001 36 24 *	- 46 17 36 *	
PERTH AUS		32 00 07 S	115 51 10	5	11 18 01.40	056 45 00	48 25 00	
PERTH AUS		32 00 07 S	115 51 10	5	11 18 54.30	068 28 00	49 18 00	
PRET B S AF		25 43 43 S	028 12 42	1311	16 31 42.40	014 13 30 *	- 05 48 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	16 31 49.60	014 00 00 *	01 48 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	16 34 49.00	014 55 00 *	- 21 18 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	18 17 42.00	009 33 00 *	- 03 12 00 *	
PRET B S AF		25 43 43 S	028 12 42	1311	18 18 46.00	009 42 00 *	- 14 12 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	18 19 03.32	009 39 00 *	- 16 00 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	18 20 10.69	009 50 12 *	- 28 00 36 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	18 22 21.00	010 13 00 *	- 56 30 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	18 22 57.00	010 31 00 *	- 67 42 00 *	
PRET B S AF		25 43 43 S	028 12 42	1311	18 23 17.00	010 29 00 *	- 61 18 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	18 23 20.32	010 30 06 *	- 60 31 12 *	

STATION	LATITUDE	LDNGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
26 MAY 1958 (CONT)							
PRET 8 S AF	25 43 43 S	028 12 42	1311	18 23 35.00	010 39 00 *	- 64 30 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	18 23 40.00	010 49 00 *	- 63 54 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	18 25 04.00	012 30 00 *	- 75 00 00 *	
SYDNEY AUS	33 54 43 S	151 05 41	15	18 54 38.70	019 15 00 *	- 40 30 00 *	
SYDNEY AUS	33 54 43 S	151 05 41	15	18 57 09.00	021 42 00 *	09 36 00 *	
SYDNEY AUS	33 54 43 S	151 05 41	15	18 59 21.50	001 07 30 *	- 10 42 00 *	
SYDNEY AUS	33 54 43 S	151 05 41	15	18 59 32.00	001 25 30 *	- 09 12 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	20 39 09.00	150 34 00	28 10 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 41 33.80	131 28 00	29 07 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 41 51.80	126 13 00	29 19 00	
LAPLAT D ARG	34 54 31 S	302 04 03		21 52 04.80	014 58 18 *	- 08 25 30 *	
LAPLAT O ARG	34 54 31 S	302 04 03		21 53 21.50	015 20 54 *	- 14 56 30 *	
LAPLAT D ARG	34 54 31 S	302 04 03		21 53 41.20	015 27 24 *	- 16 30 24 *	
LAPLAT D ARG	34 54 31 S	302 04 03		23 37 36.50	011 53 24 *	- 16 57 42 *	
LAPLAT D ARG	34 54 31 S	302 04 03		23 38 14.40	012 07 42 *	- 23 52 30 *	
LAPLAT D ARG	34 54 31 S	302 04 03		23 39 01.00	012 29 32 *	- 32 19 12 *	
LAPLAT O ARG	34 54 31 S	302 04 03		23 39 44.80	012 51 16 *	- 39 57 54 *	
LAPLAT D ARG	34 54 31 S	302 04 03		23 40 57.00	013 39 58 *	- 50 37 30 *	
27 MAY 1958							
UNION JHNSBG	26 10 55 S	028 04 30	1806	03 47 08.00	022 28 00 *	- 33 00 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	03 47 19.20	022 37 54 *	- 27 18 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 49 40.72	023 51 42 *	24 06 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	03 49 57.40	000 05 36 *	28 49 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	03 49 58.00	000 05 48 *	28 49 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 49 59.89	000 03 00 *	28 18 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 50 09.48	000 03 24 *	30 09 00 *	
LAPLAT D ARG	34 54 31 S	302 04 03		07 13 50.80	001 36 09 *	- 21 31 00 *	
LAPLAT O ARG	34 54 31 S	302 04 03		08 57 26.10	017 10 01 *	- 74 36 30 *	
LAPLAT D ARG	34 54 31 S	302 04 03		08 58 58.50	021 04 33 *	- 64 04 00 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 00 31.90	022 43 30 *	- 33 04 12 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 01 29.50	023 13 17 *	- 11 49 42 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 01 35.90	023 16 04 *	- 09 33 18 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 02 45.80	023 41 06 *	10 06 30 *	
ADLATO C AUS	34 44 00 S	138 40 00		10 09 30.00	012 31 00 *	- 15 45 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	11 58 25.90	154 02 00	55 26 00	
PRET 8 S AF	25 43 43 S	028 12 42	1311	17 00 10.08	013 20 00 *	- 36 00 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	17 05 13.00	011 28 00 *	14 42 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	17 08 05.00	012 27 00 *	- 16 18 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	17 08 10.00	012 32 00 *	- 15 48 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	17 08 12.50	012 30 00 *	- 16 24 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	17 09 39.60	013 13 00 *	- 31 30 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	17 10 00.00	013 20 00 *	- 36 00 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	17 10 52.80	013 50 00 *	- 41 48 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	17 11 02.00	013 35 00 *	- 44 36 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	17 12 01.60	014 34 00 *	- 49 12 00 *	
UNION JHNSBG	26 10 55 S	028 04 30	1806	17 12 02.00	014 33 00 *	- 49 30 00 *	
SYDNEY AUS	33 54 43 S	151 05 41	15	19 33 33.00	020 17 00 *	- 13 54 00 *	
SYDNEY AUS	33 54 43 S	151 05 41	15	19 35 28.00	021 42 00 *	08 15 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	21 15 23.00	190 02 00	37 28 00	
PERTH AUS	32 00 07 S	115 51 10	5	21 16 22.80	180 05 00	48 05 00	
PERTH AUS	32 00 07 S	115 51 10	5	21 19 14.90	070 02 00	53 10 00	
PERTH AUS	32 00 07 S	115 51 10	5	21 19 55.10	062 08 00	49 07 00	
PERTH AUS	32 00 07 S	115 51 10	5	21 21 07.60	047 04 00	27 12 00	
LAPLAT D ARG	34 54 31 S	302 04 03		22 22 57.80	012 44 14 *	16 39 30 *	
LAPLAT D ARG	34 54 31 S	302 04 03		22 23 47.90	012 59 03 *	10 46 30 *	
LAPLAT D ARG	34 54 31 S	302 04 03		22 25 18.20	013 26 43 *	- 01 15 06 *	
LAPLAT D ARG	34 54 31 S	302 04 03		22 26 56.00	014 D1 51 *	- 14 52 48 *	
LAPLAT D ARG	34 54 31 S	302 04 03		22 28 33.50	014 46 56 *	- 25 12 24 *	
LAPLAT D ARG	34 54 31 S	302 04 03		22 28 55.10	014 56 26 *	- 27 27 48 *	
LAPLAT D ARG	34 54 31 S	302 04 03		22 29 00.30	014 59 15 *	- 27 55 48 *	
LAPLAT D ARG	34 54 31 S	302 04 03		22 29 34.30	015 15 41 *	- 31 05 42 *	
28 MAY 1958							
LAPLAT D ARG	34 54 31 S	302 04 03		00 13 38.70	009 51 49 *	- 27 34 42 *	
LAPLAT D ARG	34 54 31 S	302 04 03		00 14 25.50	009 57 50 *	- 35 45 00 *	
LAPLAT D ARG	34 54 31 S	302 04 03		00 15 45.20	009 57 44 *	- 39 17 06 *	
LAPLAT O ARG	34 54 31 S	302 04 03		00 16 19.40	010 16 31 *	- 55 55 06 *	
LAPLAT D ARG	34 54 31 S	302 04 03		00 17 00.90	010 26 15 *	- 62 59 30 *	
LAPLAT D ARG	34 54 31 S	302 04 03		00 17 49.00	010 43 34 *	- 70 37 54 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
28 MAY 1958 (CONT)							
LAPLAT D ARG	34 54 31 S	302 04 03		07 43 19.20	001 55 26 *	- 58 39 36 *	
LAPLAT D ARG	34 54 31 S	302 04 03		07 46 42.60	001 44 30 *	- 53 43 54 *	
LAPLAT D ARG	34 54 31 S	302 04 03		07 48 07.60	001 20 45 *	- 34 50 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 09.92	026 30 00	56 22 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 21.59	029 52 12	57 52 37	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 30.33	032 15 36	58 50 38	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 37.72	034 26 36	59 33 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 53.31	039 28 12	60 54 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 00.91	042 11 24	61 35 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 10.62	045 42 36	62 14 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 25.18	048 43 12	62 44 52	
LAPLAT O ARG	34 54 31 S	302 04 03	32	09 32 30.65	051 55 48	63 17 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 32.50	016 33 16 *	- 42 43 54 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 40.72	053 59 24	63 25 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 49.91	058 13 12	63 52 08	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 03.44	065 30 00	64 20 03	
LAPLAT D ARG	34 54 31 S	302 04 03		09 34 22.10	018 02 25 *	- 29 40 06 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 35 14.40	018 46 14 *	- 18 38 30 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 35 23.10	018 53 20 *	- 16 27 54 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 37 56.50	020 20 53 *	14 25 48 *	
LAPLAT D ARG	34 54 31 S	302 04 03		09 39 25.90	021 33 24 *	38 20 12 *	
PERTH AUS	32 00 07 S	115 51 10	5	10 43 16.80	079 46 00	44 14 00	
AOLAIO C AUS	34 44 00 S	138 40 00		10 48 46.00	011 46 00 *	- 66 19 48 *	
AOLAIO C AUS	34 44 00 S	138 40 00		10 50 15.00	014 40 00 *	- 79 00 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	12 31 21.30	240 18 00	52 53 00	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 41 47.00	009 33 00 *	- 08 30 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 44 34.00	232 48 00	63 00 00	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 45 38.00	010 26 00 *	- 49 06 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 46 05.00	010 30 00 *	- 53 48 00 *	
LAPLAT O ARG	34 54 31 S	302 04 03		22 59 22.40	011 26 04 *	- 01 26 18 *	
LAPLAT O ARG	34 54 31 S	302 04 03		23 03 29.40	013 19 38 *	- 42 47 54 *	
LAPLAT O ARG	34 54 31 S	302 04 03		23 03 53.70	013 36 34 *	- 46 02 12 *	
LAPLAT D ARG	34 54 31 S	302 04 03		23 07 17.20	016 36 52 *	- 60 26 24 *	
LAPLAT O ARG	34 54 31 S	302 04 03		23 07 35.70	016 53 40 *	- 60 36 06 *	
LAPLAT D ARG	34 54 31 S	302 04 03		23 08 06.40	017 20 31 *	- 60 38 06 *	
29 MAY 1958							
LAPLAT D ARG	34 54 31 S	302 04 03		00 49 02.80	008 38 40 *	- 29 24 18 *	
LAPLAT D ARG	34 54 31 S	302 04 03		00 49 37.10	008 37 08 *	- 33 43 18 *	
LAPLAT O ARG	34 54 31 S	302 04 03		00 50 39.20	008 27 50 *	- 42 28 24 *	
LAPLAT D ARG	34 54 31 S	302 04 03		00 52 49.90	008 08 13 *	- 59 23 36 *	
LAPLAT O ARG	34 54 31 S	302 04 03		00 53 19.70	008 00 41 *	- 63 28 06 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	02 56 12.02	000 17 30 *	- 17 13 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	02 58 21.62	000 19 24 *	- 13 31 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	02 58 35.16	000 21 42 *	- 08 04 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	02 58 45.75	000 24 36 *	- 04 40 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 09 00.30	022 13 00 *	- 60 18 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 09 25.60	022 43 06 *	- 49 14 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 10 03.00	023 11 00 *	- 33 48 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 10 06.00	023 11 00 *	- 32 00 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 10 13.00	023 15 00 *	- 32 42 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 10 21.91	023 00 30 *	- 30 56 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 10 21.91	023 13 24 *	- 27 12 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 11 10.00	023 43 00 *	- 04 30 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 11 24.83	023 32 48 *	- 02 12 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 11 47.50	023 55 12 *	06 30 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 13 07.10	000 16 00 *	26 56 00 *	
TERRHAUT INO	39 31 38 N	272 36 10	155	07 52 41.10	270 00 00	82 28 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 09.92	026 30 00	56 22 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 21.56	029 52 12	57 52 37	
OILSBURY AUS	34 43 58 S	138 38 47	32	09 31 30.33	032 15 36	58 50 38	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 37.72	034 36 36	59 33 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 53.31	039 28 12	60 54 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 00.91	042 11 24	61 35 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 10.62	045 42 36	62 14 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 25.18	048 43 12	62 44 52	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 30.65	051 55 48	63 17 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 40.72	053 59 24	63 25 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 49.91	058 13 12	63 52 08	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 57.29	062 25 48	64 11 06	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 MAY 1958 (CONT)							
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 03.44	065 30 00	64 20 03	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 14.09	068 28 12	64 22 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 21.06	072 41 24	64 12 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 30.03	075 57 36	64 10 30	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 37.98	081 04 12	63 54 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 46.79	083 13 12	63 29 49	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 55.51	086 49 12	63 04 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 00.55	089 22 12	62 38 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 10.79	091 35 24	62 14 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 26.86	095 43 12	61 31 58	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 43.02	100 42 00	60 08 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 51.24	105 13 12	58 39 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 59.41	107 20 24	57 50 06	
ADLAID C AUS	34 44 00 S	138 40 00		09 35 12.00	014 50 00 *	- 40 30 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 35 15.92	109 49 12	56 59 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 35 24.05	113 26 24	55 14 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 35 30.98	115 04 48	54 16 30	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 35 48.00	116 28 12	53 24 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 36 02.89	119 43 48	51 31 30	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 36 17.69	121 49 12	49 40 37	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 36 35.56	123 58 12	47 57 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 36 51.47	126 19 48	45 54 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 36 59.38	127 53 24	44 09 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 37 08.03	128 48 36	43 12 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 37 23.83	129 41 24	42 27 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 37 31.88	131 07 48	40 42 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 37 47.20	131 45 36	39 44 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 37 55.74	133 00 00	38 12 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 38 04.24	133 33 00	37 18 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 38 19.70	134 09 00	36 25 30	
ADLAID C AUS	34 44 00 S	138 40 00		11 19 52.00	084 80 00 *	- 27 30 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		11 26 18.00	005 00 00 *	- 80 00 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	16 30 49.00	012 43 00 *	- 15 12 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	16 33 39.00	014 03 00 *	- 41 12 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	16 33 41.00	014 04 00 *	- 40 48 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	16 34 48.50	014 42 00 *	- 47 24 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	18 18 52.00	008 26 00 *	- 35 00 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		20 41 17.00	018 20 00 *	- 04 00 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		20 44 09.00	019 27 00 *	- 28 30 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		20 46 18.00	020 30 00 *	- 46 30 00 *	
30 MAY 1958							
UNION JOHNSBG	26 10 55 S	028 04 30	1806	03 43 55.20	018 30 54 *	- 14 53 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	03 44 13.00	018 43 00 *	- 09 24 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	03 44 27.00	018 55 12 *	- 05 42 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	03 45 02.30	019 23 30 *	- 05 30 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	03 45 40.40	019 48 00 *	- 18 48 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 46 07.65	019 57 30 *	- 25 16 00 *	
LAPLAT D ARG	34 54 31 S	302 04 03		08 56 53.80	018 52 40 *	- 22 46 18 *	
LAPLAT O ARG	34 54 31 S	302 04 03		08 57 44.60	019 38 29 *	- 07 36 36 *	
LAPLAT O ARG	34 54 31 S	302 04 03		08 57 58.90	019 50 54 *	- 03 09 36 *	
LAPLAT O ARG	34 54 31 S	302 04 03		08 58 34.20	020 18 16 *	- 07 29 54 *	
LAPLAT D ARG	34 54 31 S	302 04 03		08 58 53.60	020 31 58 *	- 12 52 54 *	
LAPLAT D ARG	34 54 31 S	302 04 03		08 58 59.50	020 36 03 *	- 14 25 48 *	
LAPLAT O ARG	34 54 31 S	302 04 03		09 00 15.80	021 22 25 *	- 30 45 12 *	
ADLAID C AUS	34 44 00 S	138 40 00		10 09 12.00	011 23 00 *	- 54 18 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		11 52 05.00	008 11 00 *	- 13 30 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 04 57.00	258 00 00	- 72 30 00	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 06 50.00	010 53 00 *	- 50 00 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 07 41.96	011 12 00 *	- 58 25 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 09 10.40	012 14 00 *	- 69 30 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 09 10.60	012 15 00 *	- 69 24 00 *	
31 MAY 1958							
UNION JOHNSBG	26 10 55 S	028 04 30	1806	02 30 54.00	109 00 00	- 51 36 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 48 30.99	009 05 31	- 31 26 27	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 48 46.06	010 30 32	- 32 58 04	
WOOMER AUS	31 06 07 S	136 47 07	162	08 48 52.00	023 59 24	- 41 32 56	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 00.25	024 30 57	- 42 22 19	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
31 MAY 1958 (CONT)							
SALSBURY AUS	34 43 58 S	138 38 47	32	08 49 06.17	012 27 00	34 51 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 11.11	026 09 39	43 33 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 49 20.60	013 55 12	36 23 24	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 22.84	028 01 15	44 39 39	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 34.12	030 14 56	45 52 04	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 49 40.18	016 06 57	38 31 12	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 47.52	032 56 20	47 09 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 49 55.58	018 04 48	40 03 39	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 01.58	035 52 51	48 29 31	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 50 11.82	020 18 36	41 48 54	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 21.16	040 23 24	50 11 16	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 50 37.12	024 22 30	44 24 39	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 37.58	044 38 20	51 28 01	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 50 52.51	026 47 27	46 01 19	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 53.90	048 57 03	52 35 27	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 51 16.28	031 28 51	48 13 22	
WOOMER AUS	31 06 07 S	136 47 07	162	08 51 16.82	055 33 32	53 52 08	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 51 32.20	034 57 32	49 42 36	
WOOMER AUS	31 06 07 S	136 47 07	162	08 51 34.00	060 58 08	54 31 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 51 52.28	067 10 55	54 58 44	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 51 57.60	040 57 43	51 51 18	
WOOMER AUS	31 06 07 S	136 47 07	162	08 52 00.20	069 13 44	55 03 36	
WOOMER AUS	31 06 07 S	136 47 07	162	08 52 13.25	072 5* 40	55 05 20	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 52 13.96	045 16 44	53 03 07	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 52 27.80	049 07 12	53 37 32	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 52 41.82	053 18 32	54 40 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 52 50.28	085 03 54	54 16 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 53 02.56	088 15 57	53 51 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 53 08.25	061 31 51	55 44 56	
WOOMER AUS	31 06 07 S	136 47 07	162	08 53 14.30	091 38 06	53 09 25	
WOOMER AUS	31 06 07 S	136 47 07	162	08 53 23.77	094 05 27	52 44 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 53 26.21	067 26 52	56 00 39	
WOOMER AUS	31 06 07 S	136 47 07	162	08 53 31.43	096 10 15	52 13 33	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 53 40.78	072 09 25	56 04 44	
WOOMER AUS	31 06 07 S	136 47 07	162	08 53 41.31	098 25 33	51 38 24	
WOOMER AUS	31 06 07 S	136 47 07	162	08 53 49.70	100 41 45	50 58 44	
WOOMER AUS	31 06 06 S	136 46 54	162	08 54 03.18	013 38 42 *	- 31 05 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 54 05.46	080 06 36	55 44 27	
WOOMER AUS	31 06 06 S	136 46 54	162	08 54 11.37	013 42 42 *	- 32 03 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	08 54 19.57	013 47 00 *	- 33 02 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	08 54 27.76	013 51 30 *	- 34 00 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 54 29.79	087 32 02	54 47 52	
AOLAI C	34 44 00 S	138 40 00		08 54 47.00	013 30 00 *	- 28 30 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	08 54 59.50	013 55 42 *	- 04 59 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 55 00.53	095 59 27	52 53 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 55 18.20	100 18 03	51 43 51	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 55 33.65	103 53 27	50 31 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 55 50.21	107 33 28	49 08 31	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 56 09.87	110 55 15	47 26 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 56 30.17	114 28 51	45 28 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 56 56.24	118 21 36	42 59 20	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 57 19.05	121 20 20	40 55 26	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 57 43.58	124 00 39	38 34 22	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 58 12.30	127 02 27	35 58 40	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 58 40.00	129 13 32	33 23 31	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 59 14.16	131 47 06	30 26 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	08 59 52.71	134 05 27	27 16 40	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 01 53.83	139 27 18	18 19 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 00 26.49	135 53 31	24 34 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 00 57.20	137 18 00	22 17 27	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 01 23.17	138 26 16	20 32 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 02 08.60	140 06 36	17 25 40	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 02 41.64	141 04 19	15 16 04	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 03 17.38	142 06 32	13 10 44	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 03 30.89	142 22 51	12 15 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 03 54.12	142 26 31	10 57 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 04 11.09	143 19 08	10 03 43	
WOOMER AUS	31 06 07 S	136 47 07	162	10 37 58.79	271 06 00	37 01 48	
WOOMER AUS	31 06 07 S	136 47 07	162	10 38 24.39	267 09 21	37 30 00	
WOOMER AUS	31 06 07 S	136 47 07	162	10 38 37.79	264 55 48	38 17 45	

STATION		LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
31 MAY 1958 (CONT)								
WOOMER	AUS	31 06 07 S	136 47 07	162	10 39 01.92	260 51 39	39 38 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 39 16.54	258 12 39	40 21 07	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 39 54.24	249 51 54	42 10 15	
ADLAID C	AUS	34 44 00 S	138 40 00		10 40 15.00	008 40 00 *	27 00 00 *	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 40 54.72	238 07 15	43 23 31	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 41 10.55	234 43 26	43 26 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 41 19.22	232 52 19	43 26 31	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 41 28.10	230 56 34	43 25 08	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 41 50.05	226 20 20	43 05 27	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 42 09.49	222 14 56	42 42 03	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 42 22.52	219 37 12	42 21 07	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 42 39.10	216 23 52	41 46 55	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 42 57.43	213 05 49	41 07 01	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 43 10.29	210 42 36	40 31 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 43 36.46	205 59 31	39 11 06	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 43 58.23	202 26 56	37 59 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 44 15.57	199 50 52	36 58 15	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 44 40.43	196 17 34	35 25 19	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 44 57.17	194 04 19	34 21 00	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 45 13.25	192 01 22	33 17 20	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 45 28.90	190 11 45	32 16 19	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 45 45.47	188 19 40	31 09 00	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 46 01.04	186 41 38	30 04 58	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 46 24.68	184 18 36	28 29 45	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 46 41.64	182 45 10	27 21 21	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 47 47.65	177 24 03	22 59 49	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 47 55.70	176 45 43	22 27 43	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 48 10.72	175 46 15	21 33 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 48 26.35	174 39 10	20 30 43	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 48 49.65	173 10 57	19 03 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	10 48 59.79	172 35 27	18 25 55	
ADLAID C	AUS	34 44 00 S	138 40 00		20 03 10.00	018 53 00 *	17 30 00 *	
1 JUN 1958								
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 24 10.01	327 17 42	54 38 31	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 24 22.09	326 46 48	56 51 00	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 24 54.34	325 29 24	52 31 15	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 25 09.87	324 11 09	65 18 36	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 25 24.39	322 59 20	58 10 44	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 25 37.88	259 36 36	85 02 06	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 25 40.99	321 18 36	71 10 40	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 25 58.14	318 50 09	74 28 55	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 25 59.19	210 26 56	84 14 31	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 26 13.56	315 25 08	77 26 52	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 26 16.44	180 49 26	31 45 36	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 26 30.42	309 01 55	80 44 45	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 26 30.47	180 53 42	79 17 06	
ADLAID C	AUS	34 44 00 S	138 40 00		09 26 57.00	010 56 00 *	33 30 00 *	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 27 01.69	270 33 28	85 46 19	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 27 04.11	170 19 12	73 08 16	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 27 20.38	216 51 03	85 51 28	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 27 28.71	156 33 32	68 36 02	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 27 37.14	197 38 38	83 33 03	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 27 46.06	164 47 06	65 33 54	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 27 51.17	176 55 51	81 12 32	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 28 01.22	163 34 55	62 52 22	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 28 06.29	170 47 51	78 17 27	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 28 11.83	160 17 06	52 37 04	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 28 23.15	166 25 55	75 06 46	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 28 26.22	162 01 12	58 43 37	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 28 56.64	162 00 32	68 46 08	
WOOMER	AUS	31 06 07 S	136 47 07	162	09 29 11.83	160 17 06	52 37 04	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 29 14.72	160 33 36	65 34 51	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 29 27.92	159 41 45	63 15 03	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 29 43.57	158 52 44	60 43 22	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 30 00.06	158 12 00	58 04 01	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 30 15.09	157 34 55	55 34 12	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 30 33.77	156 59 52	52 42 00	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 30 56.87	156 22 48	49 23 27	
SALSBURY	AUS	34 43 58 S	138 38 47	32	09 31 37.69	155 32 24	43 46 08	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1 JUN 1958 (CONT)							
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 54.07	155 12 39	41 48 57	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 24.14	154 55 08	38 17 20	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 42.09	154 41 24	36 10 51	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 58.49	154 28 55	34 31 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 21.31	154 13 40	32 10 19	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 22 57.10	010 06 30 *	- 12 18 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 24 15.00	294 30 00	84 30 00	
PRET B S AF	25 43 43 S	028 12 42	1311	16 25 20.80	010 58 00 *	- 42 00 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 26 19.00	011 37 00 *	- 50 12 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 27 16.00	012 14 00 *	- 58 18 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 27 30.20	012 22 00 *	- 59 30 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	16 31 11.20	016 28 00 *	- 71 00 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		21 44 53.00	014 18 06 *	- 42 19 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		21 45 58.60	015 01 54 *	- 47 02 42 *	
2 JUN 1958							
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 21.40	270 30 39	46 25 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 34.73	268 00 00	47 24 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 59.68	262 21 32	49 14 38	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 00 00.00	247 00 00	53 00 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 15.21	258 48 00	50 16 22	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 30.91	254 47 52	51 05 31	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 00 42.00	236 00 00	54 00 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 56.23	248 05 38	52 09 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 28.97	238 43 15	53 03 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 59.59	230 00 00	53 01 04	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 17.11	224 59 52	52 43 12	
WOOMER AUS	31 06 07 S	136 47 07	162	10 04 06.82	182 37 51	33 04 19	
WOOMER AUS	31 06 06 S	136 46 54	162	10 04 11.85	009 30 00 *	- 87 30 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 04 44.71	019 44 00 *	- 88 48 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	10 05 03.83	177 34 51	28 36 36	
WOOMER AUS	31 06 07 S	136 47 07	162	10 05 18.70	176 29 20	27 31 19	
WOOMER AUS	31 06 07 S	136 47 07	162	10 05 27.58	175 46 15	26 46 15	
WOOMER AUS	31 06 07 S	136 47 07	162	10 05 44.20	174 37 33	25 34 51	
WOOMER AUS	31 06 07 S	136 47 07	162	10 06 01.90	173 34 08	24 24 28	
WOOMER AUS	31 06 07 S	136 47 07	162	10 06 21.30	172 06 32	22 44 34	
WOOMER AUS	31 06 07 S	136 47 07	162	10 06 32.92	171 32 24	22 04 30	
WOOMER AUS	31 06 07 S	136 47 07	162	10 07 04.84	169 46 58	19 55 51	
WOOMER AUS	31 06 07 S	136 47 07	162	10 07 13.70	169 21 14	19 16 51	
WOOMER AUS	31 06 07 S	136 47 07	162	10 07 29.66	168 33 32	18 16 51	
WOOMER AUS	31 06 07 S	136 47 07	162	10 07 46.47	157 44 42	17 14 20	
WOOMER AUS	31 06 07 S	136 47 07	162	10 08 10.24	166 44 02	15 48 00	
WOOMER AUS	31 06 07 S	136 47 07	162	10 08 27.07	165 57 14	14 41 24	
WOOMER AUS	31 06 07 S	136 47 07	162	10 08 43.64	165 20 31	13 44 27	
WOOMER AUS	31 06 07 S	136 47 07	162	10 09 00.08	164 40 37	12 46 30	
WOOMER AUS	31 06 07 S	136 47 07	162	10 09 22.93	163 48 50	11 26 38	
WOOMER AUS	31 06 07 S	136 47 07	162	10 09 40.09	163 10 15	10 27 39	
WOOMER AUS	31 06 07 S	136 47 07	162	10 09 54.22	162 35 20	09 31 15	
WOOMER AUS	31 06 07 S	136 47 07	162	10 10 12.56	162 04 44	08 41 52	
CPTWN A S AF	33 56 00 S	018 28 37	7	16 54 18.20	009 44 00 *	- 10 42 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 57 17.00	008 18 00 *	- 36 24 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	16 58 18.00	000 00 00	85 00 00	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	16 58 23.44	008 18 18 *	- 47 30 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	16 59 50.00	009 12 00 *	- 59 00 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 00 11.00	179 36 00	40 00 00	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 00 30.92	008 28 10 *	- 66 54 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 02 28.00	010 53 00 *	- 80 12 00 *	
3 JUN 1958							
LIMA PERU	11 55 43 S	283 17 58	1361	04 28 30.00	060 00 00	45 00 00	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 29 00.00	007 10 24 *	- 29 30 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 30 16.00	007 08 00 *	- 39 48 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 31 24.18	006 54 42 *	- 47 45 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 32 13.20	006 49 00 *	- 53 36 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 32 35.00	006 54 00 *	- 61 54 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
4 JUN 1958							
PRET 8 S AF	25 43 43 S	028 12 42	1311	16 13 51.30	008 37 00 *	- 43 00 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 13 56.20	008 41 30 *	- 42 30 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 15 07.00	008 55 00 *	- 54 36 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 15 30.00	009 04 00 *	- 58 36 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	16 16 35.70	009 23 00 *	- 69 00 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		21 31 46.30	011 49 30 *	- 45 05 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		21 32 09.20	012 06 04 *	- 48 27 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		21 35 01.00	014 52 47 *	- 62 44 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		21 39 35.00	018 21 59 *	- 57 08 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 19 03.30	007 11 14 *	- 43 49 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 19 11.20	007 09 29 *	- 44 47 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 20 31.50	006 53 55 *	- 55 12 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 21 21.50	006 36 43 *	- 61 29 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 23 47.20	004 25 33 *	- 75 44 36 *	
STIAGO R CHI	33 33 42 S	289 18 48	573	23 26 06.50	020 39 30 *	- 66 34 00 *	
5 JUN 1958							
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 44 07.80	007 03 00 *	- 30 54 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 45 20.00	007 02 00 *	- 40 00 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 45 38.60	007 00 00 *	- 43 24 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	16 45 46.40	006 55 10 *	- 45 08 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	16 46 27.40	006 53 00 *	- 50 30 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 46 27.60	006 57 00 *	- 49 42 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 47 58.00	006 40 00 *	- 61 36 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	16 48 36.23	006 25 30 *	- 66 04 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	16 49 01.00	006 12 00 *	- 69 00 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	16 49 21.00	006 56 00 *	- 71 25 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	16 50 51.32	004 30 06 *	- 79 10 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	16 53 12.00	022 34 00 *	- 80 27 00 *	
6 JUN 1958							
ADLAIO C AUS	34 44 00 S	138 40 00		10 15 26.00	006 58 30 *	- 16 00 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 17 18.34	006 08 42 *	- 44 07 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 18 50.00	005 50 18 *	- 53 08 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	17 19 20.50	005 40 30 *	- 56 12 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 21 14.19	004 51 06 *	- 65 30 00 *	
7 JUN 1958							
UNION JOHSBG	26 10 55 S	028 04 30	1806	15 58 14.20	007 07 12 *	- 39 36 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	15 59 15.00	007 08 30 *	- 49 00 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	16 00 46.00	007 10 00 *	- 62 00 00 *	
8 JUN 1958							
CCNAV FLA	28 29 33 N	279 25 27	15	09 26 00.00	194 44 24	26 37 12	
SSLVOR A BWI	24 07 23 N	285 32 53		09 27 14.68	104 43 48	67 28 48	
ADLAIO C AUS	34 44 00 S	138 40 00		09 27 47.00	006 44 00 *	- 14 18 00 *	
SSLVOR A BWI	24 07 23 N	285 32 53		09 28 15.16	034 13 12	24 11 24	
SSLVOR A BWI	24 07 23 N	285 32 53		09 28 30.00	033 06 36	21 09 36	
PRET 8 S AF	25 43 43 S	028 12 42	1311	16 26 58.40	006 12 00 *	- 29 36 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	18 34 12.00	000 00 00	34 48 00	
9 JUN 1958							
PT RICO A WI	18 10 31 N	292 54 42	408	09 01 49.72	298 34 12	17 55 48	
PT RICO A WI	18 10 31 N	292 54 42	408	09 02 09.60	310 40 12	16 33 36	
WOOMER AUS	31 06 06 S	136 46 54	162	09 22 59.71	003 19 30 *	- 75 22 00 *	
ALBUO B NM	35 06 37 N	253 27 47	1667	10 49 37.00	103 00 00	04 42 00	
10 JUN 1958							
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	00 46 10.00	001 10 00 *	60 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	08 43 57.57	005 38 30 *	- 65 04 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	08 44 14.02	005 30 48 *	- 67 04 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	08 44 30.46	005 21 30 *	- 68 54 00 *	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 25.50	098 09 57	75 10 19	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 25.75	096 40 48	75 21 39	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 26.00	094 58 15	75 19 08	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 26.25	093 55 15	74 57 21	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 26.75	090 54 18	74 32 24	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 27.00	089 02 24	74 19 51	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 27.50	085 53 24	73 38 42	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 JUN 1958 (CONT)							
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 27.75	084 22 15	73 19 12	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 30 28.00	082 47 24	73 05 42	
BRISTOL TENN	36 35 03 N	277 50 31	527	09 34 30.00	138 00 00	18 00 00	
ALMGROD A NM	32 52 24 N	254 02 58	1335	11 17 18.00	023 56 00 *	03 00 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	11 17 35.00	115 00 00	19 00 00	
KASHIWABRA J	34 30 24 N	135 48 15	66	14 44 36.71	016 07 18 *	03 30 40 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	14 44 48.73	015 56 42 *	40 20 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	14 45 02.73	015 41 06 *	48 24 00 *	
11 JUN 1958							
WOOMER AUS	31 06 06 S	136 46 54	162	09 07 00.35	005 50 06 *	- 22 56 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	09 07 38.49	005 43 00 *	- 32 52 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	09 10 16.97	005 31 00 *	- 43 06 00 *	
C CNAV H FLA	28 24 29 N	279 24 44	12	09 41 00.00	010 56 00	22 22 12	
N ORLS AD LA	29 57 30 N	269 58 34	2	09 59 05.00	090 00 00	79 00 00	
BILOXI MISS	30 23 27 N	271 08 28	7	09 59 12.00	270 00 00	82 00 00	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 43 51.00	023 54 00 *	- 28 00 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 44 36.00	125 16 48	26 24 39	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 44 40.00	121 41 20	26 58 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 45 05.00	095 42 54	24 54 43	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 45 11.00	090 13 30	23 52 10	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 45 36.00	072 16 51	18 43 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 46 06.00	059 33 25	13 02 20	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 46 36.00	050 35 52	08 48 28	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 47 06.00	046 38 24	05 43 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 47 36.00	042 50 09	02 54 32	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	23 58 00.00	003 27 00 *	32 30 00 *	
12 JUN 1958							
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 26 00.00	001 09 00 *	- 05 50 00 *	
S ANT 8 TEX	29 27 34 N	261 29 16		10 26 00.00	270 00 00	62 30 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 26 07.00	001 19 00 *	- 02 35 00 *	
EDINBURG TEX	26 18 20 N	261 49 39	28	10 26 07.20	350 00 00	20 30 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 26 16.00	001 34 00 *	01 50 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	10 26 25.00	179 42 00	40 12 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	10 26 26.70	005 00 00	11 15 00	
WICHITA KAN	37 41 44 N	262 45 19	413	10 26 53.90	021 18 50 *	- 24 42 00 *	
DALLAS TEX	32 51 10 N	263 14 29	172	10 27 14.60	000 48 12 *	83 28 06 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	10 27 18.00	090 00 00	62 00 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	10 27 20.40	009 30 00	07 15 00	
ALBUQ 8 NM	35 06 37 N	253 27 47	1667	10 27 32.00	002 42 00 *	13 54 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	10 28 54.00	035 42 00	10 12 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	17 51 59.00	149 30 00	38 00 00	1540
MIL RAD MASS	42 37 03 N	288 30 28	155	17 57 49.00	151 30 00	05 30 00	3820
KONKO J	34 32 31 N	133 37 40	4	19 13 00.00	000 00 00	40 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	19 34 08.00	278 30 00	09 30 00	2600
MIL RAD MASS	42 37 03 N	288 30 28	155	19 35 55.00	258 30 00	14 30 00	2510
SYLCGA A ALA	33 09 44 N	273 44 47	181	21 08 15.00	001 20 50 *	12 54 00 *	
13 JUN 1958							
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	00 24 40.00	013 54 06 *	72 12 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	00 24 45.00	015 00 00 *	70 00 00 *	
S FERNDD SP	36 27 42 N	353 47 42	30	03 53 31.40	022 47 18 *	- 30 53 00 *	
S FERNDD SP	36 27 42 N	353 47 42	30	03 57 09.88	000 12 20 *	- 12 20 00 *	
C CNAV F FLA	28 27 58 N	279 24 38		09 08 00.40	344 49 12	- 45 08 00	
SYLCGA 8 ALA	33 10 20 N	273 44 39		09 08 15.00	090 00 00	32 00 00	
HARRSONBG VA	38 28 20 N	281 08 00	463	09 09 38.00	090 00 00	70 00 00	
C CNAV H FLA	28 24 29 N	279 24 44	12	09 10 00.00	013 57 00	03 18 00	
N Y C A NY	40 45 28 N	286 01 15	259	09 10 15.00	270 30 00	33 30 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 52 56.00	017 58 00 *	37 15 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 53 02.00	017 54 00 *	45 40 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 53 04.00	017 47 00 *	57 30 00 *	
ALBUQ 8 NM	35 06 37 N	253 27 47	1667	10 53 35.00	021 10 00 *	48 00 00 *	
SACHTD E CAL	38 32 55 N	238 14 51	15	11 12 47.90	001 17 49 *	- 03 32 40 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	16 25 57.00	000 00 00	16 00 00	1730
MIL RAD MASS	42 37 03 N	288 30 28	155	16 29 55.00	075 24 00	28 06 00	1560
MIL RAD MASS	42 37 03 N	288 30 28	155	16 31 42.00	097 36 00	20 30 00	2030
MIL RAD MASS	42 37 03 N	288 30 28	155	16 34 40.00	115 00 30	09 06 00	3075
MIL RAD MASS	42 37 03 N	288 30 28	155	16 36 03.00	119 42 00	05 12 00	3640
MIL RAD MASS	42 37 03 N	288 30 28	155	18 21 18.00	178 30 00	18 06 00	2560

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION * OR DECLINATION*	SLANT RANGE IN KM
13 JUN 1958 (CONT)							
MIL RAO MASS	42 37 03 N	288 30 28	155	18 24 36.00	170 30 00	06 30 00	3780
14 JUN 1958							
EQW AF O CAL	34 56 43 N	242 04 58	785	04 19 37.00	042 05 16	34 00 39	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 19 49.00	036 39 00	26 49 51	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 20 04.00	036 30 28	20 34 48	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 20 19.00	034 55 12	16 13 08	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 20 34.00	033 49 12	12 50 34	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 20 44.00	033 05 20	10 15 00	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 21 04.00	032 28 26	08 08 52	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 21 14.00	032 02 31	06 22 51	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 21 34.00	031 42 39	04 52 48	
EQW AF D CAL	34 56 43 N	242 04 58	785	04 21 49.00	031 23 42	03 32 34	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 22 04.00	031 09 54	02 18 46	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 22 19.50	030 59 06	01 18 36	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 22 34.50	030 50 42	00 21 54	
EQW AF O CAL	34 56 43 N	242 04 58	785	04 22 49.50	030 49 48	00 12 39	
SKOKIE ILL	42 02 15 N	272 15 35		08 36 04.00	131 00 00	51 00 00	
SKOKIE ILL	42 02 15 N	272 15 35		08 37 40.00	043 00 00	14 00 00	
MEMPHIS TENN	35 09 26 N	270 08 46	85	09 34 26.50	270 00 00	76 50 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 34 40.00	023 49 00 *	- 18 42 00 *	
INONAPLS INO	39 40 40 N	273 50 38	223	09 34 53.30	270 00 00	65 30 00	
ST PL B MINN	44 58 30 N	266 45 59	285	09 35 08.50	022 57 00 *	- 32 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 35 14.50	022 55 00 *	- 29 18 00 *	
SYLCGA A ALA	33 09 44 N	273 44 47	181	09 35 22.00	343 00 00	16 00 00	
TERRHAUT INO	39 31 38 N	272 36 10	155	09 35 35.00	180 00 00	86 00 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	09 36 13.00	023 53 00 *	23 15 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 36 26.00	002 52 00 *	14 19 00 *	
LANSG A MICH	42 44 00 N	275 31 00	261	09 36 56.50	270 00 00	82 00 00	
WHTIER A CAL	33 58 40 N	241 56 25	149	11 19 10.00	000 20 00 *	57 36 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 19 16.00	001 07 00 *	60 18 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 19 17.00	001 21 00 *	60 46 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 19 40.00	003 25 00 *	61 00 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	11 19 47.00	011 50 00 *	20 27 00 *	
SUWA J	36 00 13 N	138 07 43	762	18 18 00.00	020 44 00 *	33 00 00 *	
SUWA J	36 00 13 N	138 07 43	762	18 18 36.00	001 50 00 *	68 00 00 *	
15 JUN 1958							
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 31 49.00	092 00 00	15 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 01 58.00	129 06 00	11 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 02 06.00	124 12 00	11 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 02 12.00	121 42 00	11 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 02 25.00	113 12 00	11 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 02 36.00	106 36 00	11 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 02 47.00	101 12 00	11 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 02 56.00	096 48 00	11 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 03 03.00	093 18 00	10 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 03 11.00	089 18 00	10 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 03 22.00	084 12 00	09 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 03 53.00	073 24 00	07 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	03 04 09.00	068 42 00	06 00 00	
WASH BEHL OC	38 49 13 N	282 59 31		08 15 40.00	000 27 00 *	- 00 18 00 *	
BRYN ATHN PA	40 08 00 N	284 56 00	85	08 16 20.00	090 00 00	29 00 00	
WASH BEHL DC	38 49 13 N	282 59 31		08 16 21.00	002 00 00 *	19 00 00 *	
N Y C A NY	40 45 28 N	286 01 15	259	08 16 32.00	092 00 00	32 00 00	
ST COLL P PA	40 44 00 N	282 06 33	393	08 16 33.00	087 00 00	14 00 00	
GOVER NJ	40 57 30 N	285 28 15	267	08 16 35.00	090 00 00	28 00 00	
N Y C A NY	40 45 28 N	286 01 15	259	08 16 39.00	088 00 00	30 30 00	
ST COLL P PA	40 44 00 N	282 06 33	393	08 16 40.00	085 00 00	14 00 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	08 17 00.00	002 00 00 *	00 00 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	10 00 28.00	359 00 00	29 48 00	
ALBUQ B NM	35 06 37 N	253 27 47	1667	10 00 32.00	003 02 00 *	31 00 00 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	10 01 09.00	017 52 00 *	70 50 00 *	
AMRLLO A TEX	35 11 30 N	258 03 28	1136	10 02 12.90	005 12 00 *	46 42 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	11 44 42.60	017 31 00 *	12 06 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	11 45 10.50	017 02 30 *	23 48 00 *	
STOCTN A CAL	37 54 17 N	238 47 36	11	11 45 14.00	270 00 00	31 30 00	
WLNTCK A CAL	37 55 30 N	237 55 30	10	11 45 18.00	016 38 00 *	31 18 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	11 45 26.80	017 20 50 *	37 09 00 *	
OITA J	33 36 06 N	131 11 57	4	18 43 44.00	012 20 00 *	72 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
15 JUN 1958 (CONT)							
HIMEJI J	34 50 25 N	134 41 24	25	18 43 48.00	311 36 00	17 36 00	
MATSUE J	35 27 42 N	133 03 18	1	18 44 03.00	012 31 00 *	70 00 00 *	
TOYAMA J	36 42 13 N	137 11 07	65	18 44 39.00	013 40 00 *	55 00 00 *	
16 JUN 1958							
HAORIO SP	40 24 30 N	356 18 43	655	03 27 17.00	022 50 00 *	13 00 00 *	
WASH BEHL OC	38 49 13 N	282 59 31		08 41 05.00	016 34 00 *	22 48 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 41 21.00	108 00 00	12 48 00	
S7 COLL P PA	40 44 00 N	282 06 33	393	08 41 30.00	273 00 00	51 00 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	08 41 31.60	077 00 00	15 00 00	
COLUMBUS O	40 01 49 N	276 57 46	229	08 41 33.00	001 12 30 *	32 15 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 41 45.60	263 12 00	17 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 41 53.20	269 00 00	18 18 00	
WASH BEHL OC	38 49 13 N	282 59 31		08 41 56.00	014 00 00 *	68 00 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 42 01.60	273 18 00	19 00 00	
ST COLL P PA	40 44 00 N	282 06 33	393	08 42 03.00	000 00 00	43 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 42 10.20	002 11 00 *	11 20 00 *	
ROCHESTER NY	43 06 49 N	282 26 11	154	08 42 11.00	021 05 00 *	48 00 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 42 11.80	284 00 00	21 30 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	08 42 17.00	000 07 00 *	28 00 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 42 17.60	288 18 00	22 00 00	
WASH BEHL OC	38 49 13 N	282 59 31		08 42 25.92	000 00 00	16 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 42 27.00	298 06 00	22 30 00	
REO BANK NJ	40 17 40 N	285 55 00		08 42 42.00	358 00 00	18 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 43 06.50	003 20 00 *	20 22 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 43 11.00	340 18 00	18 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 43 13.00	343 36 00	18 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 43 23.30	003 33 00 *	24 00 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 43 47.30	003 53 00 *	26 00 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	08 44 01.00	357 48 00	12 00 00	
OAYTON B C	39 50 14 N	275 44 03	249	09 24 13.00	015 38 03 *	36 42 00 *	
WLNTCK B CAL	37 57 52 N	237 56 14	9	10 25 23.00	001 50 00 *	07 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	17 24 43.00	000 30 00 *	02 00 00 *	
OTARU J	43 11 27 N	141 00 23	10	17 24 52.00	090 00 00	21 30 00	
17 JUN 1958							
ATHENS GR	37 58 19 N	023 43 01	110	02 07 22.00	015 01 00 *	27 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	02 08 12.00	013 12 00 *	51 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	02 08 36.00	012 10 00 *	56 54 00 *	
S FERNNOO SP	36 27 42 N	353 47 42	30	03 52 14.31	012 45 24 *	59 11 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 20 46.20	120 00 00	15 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 20 52.20	115 54 00	15 12 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 20 57.00	111 06 00	16 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 20 59.00	111 48 00	15 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 03.60	106 54 00	16 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 10.50	102 42 00	16 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 11.50	104 18 00	13 12 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 18.50	100 12 00	12 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 33.50	089 54 00	13 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 38.00	085 42 00	13 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 43.00	090 00 00	13 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 51.60	082 36 00	11 42 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 21 58.40	077 36 00	11 12 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 22 08.60	074 18 00	10 42 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 22 24.80	068 42 00	09 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 22 40.40	064 36 00	08 18 00	
TERRHAUT INO	39 31 38 N	272 36 10	155	09 05 26.00	270 00 00	40 00 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	09 05 40.50	283 00 00	56 00 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	09 05 46.00	297 30 00	46 00 00	
INONAPLS INO	39 40 40 N	273 50 38	223	09 05 52.30	301 30 00	38 00 00	
LANS G A MICH	42 44 00 N	275 31 00	261	09 06 29.80	270 00 00	37 30 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	09 06 31.70	003 00 00	29 00 00	
OAYTON B O	39 50 14 N	275 44 03	249	09 07 18.50	014 23 00 *	52 06 00 *	
OAYTON B O	39 50 14 N	275 44 03	249	09 24 13.24	015 38 03 *	36 42 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	17 49 14.00	018 58 00 *	40 00 00 *	
OTARU J	43 11 27 N	141 00 23	10	17 49 16.60	000 00 00	87 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
18 JUN 1958							
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 02.00	084 54 00	14 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 13.00	079 48 00	12 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 25.00	074 42 00	11 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 38.00	069 54 00	09 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 53.00	065 12 00	08 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 33 03.00	062 12 00	07 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 33 18.00	058 48 00	05 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 33 37.00	056 48 00	04 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 33 40.00	054 24 00	04 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 33 52.00	052 48 00	03 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 34 08.00	000 00 00	50 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 34 26.00	048 42 00	00 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 30 21.50	304 00 00	35 00 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 45 16.20	221 24 00	64 30 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 45 31.60	092 06 00	81 54 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 45 33.60	078 30 00	86 18 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 45 35.80	073 24 00	79 12 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	07 46 13.00	002 13 00 *	15 48 00 *	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 46 37.00	012 00 00	60 00 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 46 43.00	030 00 00	19 00 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 48 12.00	031 48 00	05 42 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 48 28.00	031 00 00	05 00 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 48 36.00	030 30 00	04 00 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 48 48.40	031 42 00	03 00 00	
CAMBRG MASS	42 22 47 N	288 52 14	24	07 48 53.00	032 18 00	02 18 00	
MANHTN M KAN	39 12 12 N	263 56 12	366	09 29 31.00	015 35 00 *	28 00 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	09 29 51.80	010 41 00 *	72 54 00 *	
ST PL B MINN	44 58 30 N	266 45 59	285	09 30 12.00	235 00 00	26 30 00	
ST PL B MINN	44 58 30 N	266 45 59	285	09 30 55.00	017 40 00 *	52 00 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	09 31 07.10	013 30 00	08 06 00	
LEMONT ILL	41 41 48 N	272 00 19	229	09 31 14.00	013 30 00 *	47 00 00 *	
WLNTCK B CAL	37 57 52 N	237 56 14	9	11 14 18.00	013 25 00 *	60 06 00 *	
PORTLANO ORE	45 29 19 N	237 22 27	46	11 15 01.00	020 48 44 *	06 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	18 13 27.50	332 42 00	05 36 00	
19 JUN 1958							
MEUOON FR	48 48 18 N	002 13 52	162	02 56 40.60	165 59 00	47 18 00	
BEXHILL ENG	50 51 00 N	000 30 00		02 57 14.00	116 00 00	27 00 00	
20 JUN 1958							
MLWKEE B WIS	42 59 25 N	272 01 15		08 32 51.00	004 00 00 *	79 00 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 34 06.60	005 37 00 *	48 00 00 *	
21 JUN 1958							
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 55 02.00	014 26 00 *	29 30 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	08 55 17.00	305 24 00	14 00 00	
ST PL B MINN	44 58 30 N	266 45 59	285	08 55 25.40	325 00 00	39 30 00	
ST PL B MINN	44 58 30 N	266 45 59	285	08 56 08.50	006 15 00	22 30 00	
ST PL B MINN	44 58 30 N	266 45 59	285	08 56 18.00	009 00 00	20 00 00	
ST PL B MINN	44 58 30 N	266 45 59	285	08 57 12.40	022 15 00	09 45 00	
22 JUN 1958							
HORSBROG ENG	50 53 00 N	000 15 00		02 20 25.00	122 30 00	36 30 00	
FARNHAM ENG	51 12 00 N	359 12 00		02 20 37.00	000 25 00 *	09 30 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		02 21 09.00	077 30 00	22 00 00	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	02 21 16.00	001 56 00 *	26 30 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	02 21 49.30	041 47 00	13 43 00	
N CANTON A O	40 55 54 N	278 32 40	366	07 33 58.00	005 22 00 *	46 55 00 *	
ROCHESTER NY	43 06 49 N	282 26 11	154	07 34 00.00	006 08 00 *	54 00 00 *	
PORTLANO ORE	45 29 19 N	237 22 27	46	11 02 58.00	011 00 00 *	58 00 00 *	
23 JUN 1958							
MEUOON FR	48 48 18 N	002 13 52	162	02 41 29.80	268 49 00	17 26 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 42 07.40	295 04 00	24 48 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 42 23.30	310 46 00	26 21 00	
BLFST-A,N,IR	54 15 00 N	354 23 00		02 42 28.00	140 00 00	31 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 42 47.10	333 47 00	25 25 00	
BLFST-A,N,IR	54 15 00 N	354 23 00		02 43 02.00	102 00 00	30 18 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 43 10.60	351 42 00	21 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 43 46.20	007 16 00	15 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
23 JUN 1958 (CONT)							
CAMBRDG MASS	42 22 47 N	288 52 14	24	06 10 09.00	055 00 00	05 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	06 10 17.00	053 12 00	03 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	06 10 19.60	049 42 00	03 36 00	
24 JUN 1958							
GELEEN NETH	50 57 55 N	005 49 27		02 08 37.24	000 00 00	- 88 54 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	15 31 52.00	275 48 00	42 54 00	1186
MIL RAD MASS	42 37 03 N	288 30 28	155	15 33 00.00	241 12 00	49 54 00	1150
MIL RAD MASS	42 37 03 N	288 30 28	155	15 33 57.00	213 18 00	46 54 00	1255
MIL RAD MASS	42 37 03 N	288 30 28	155	15 34 59.00	194 12 00	38 18 00	1480
MIL RAD MASS	42 37 03 N	288 30 28	155	15 36 02.00	183 36 00	30 18 00	1778
MIL RAO MASS	42 37 03 N	288 30 28	155	15 37 01.00	177 36 00	23 42 00	2080
MIL RAD MASS	42 37 03 N	288 30 28	155	15 38 08.00	173 36 00	18 30 00	2475
SAPPORO J	43 04 49 N	141 22 13	20	16 57 16.00	011 30 00 *	51 00 00 *	
25 JUN 1958							
VLARDGN NETH	51 54 49 N	004 18 59					
HOUNSLOW ENG	51 19 00 N	359 47 00		01 38 12.60	022 21 18 *	30 18 00 *	
CHELMSFD ENG	51 43 00 N	000 30 00		01 38 24.00	022 15 00 *	- 01 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		01 38 34.00	022 03 00 *	00 00 00 *	
HOUNSLOW ENG	51 19 00 N	359 47 00		01 38 44.00	022 18 00 *	- 09 00 00 *	
				01 39 17.00	001 10 00 *	21 30 00 *	
COPNGN U DEN	55 41 12 N	012 34 40	14	01 41 35.00	000 00 00	80 00 00	
UNION JOHNSRG	26 10 55 S	028 04 30	1806	17 45 11.00	013 10 00 *	- 34 12 00 *	
26 JUN 1958							
MIL RAO MASS	42 37 03 N	288 30 28	155	14 19 59.80	029 06 00	62 12 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	14 23 30.00	327 42 00	18 06 00	1663
MIL RAO MASS	42 37 03 N	288 30 28	155	14 27 11.00	324 00 00	88 54 00	876
MIL RAD MASS	42 37 03 N	288 30 28	155	14 30 55.00	147 36 00	28 36 00	1850
27 JUN 1958							
COPNGN A DEN	55 44 41 N	012 33 09		00 34 16.00	022 13 00 *	- 05 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	05 45 06.00	024 36 00	23 06 00	555
MIL RAD MASS	42 37 03 N	288 30 28	155	05 46 15.00	029 18 00	08 42 00	1063
MIL RAO MASS	42 37 03 N	288 30 28	155	05 48 06.00	032 18 00	00 00 00	1910
MLWKEE B WIS	42 59 25 N	272 01 15		07 31 37.00	009 22 00 *	57 30 00 *	
28 JUN 1958							
BUSSUM NETH	52 16 52 N	005 09 18		00 52 21.50	020 29 00 *	10 54 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 52 32.10	051 01 00	27 13 00	
BLARICM NETH	52 16 15 N	005 14 53		00 52 44.10	022 35 36 *	30 30 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		00 52 45.30	022 37 00 *	30 36 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		00 53 21.60	001 23 00 *	37 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 23.00	044 21 00	13 23 00	
LNDSTRT NETH	52 37 39 N	004 44 58		00 53 43.60	002 07 42 *	34 10 12 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 53 45.00	020 30 00 *	37 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 53 57.50	021 20 00 *	43 30 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 54 10.00	003 06 00 *	42 00 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	00 54 11.00	024 24 00	54 48 00	
29 JUN 1958							
THURSO SCOT	58 36 00 N	356 30 00		01 11 20.00	135 00 00	20 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 11 54.50	012 18 00	54 30 00	
COPNGN B DEN	55 42 13 N	012 27 09	10	01 12 07.00	269 24 00	31 06 00	
THURSO SCOT	58 36 00 N	356 30 00		01 29 26.00	010 14 00 *	00 00 00 *	
HOUNSLOW ENG	51 19 00 N	359 47 00		01 40 49.00	013 40 00 *	60 00 00 *	
30 JUN 1958							
MEUDON FR	48 48 18 N	002 13 52	162	01 29 11.00	285 00 00	07 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 29 18.00	295 00 00	10 00 00	
1 JUL 1958							
COPNGN B DEN	55 42 13 N	012 27 09	10	00 01 16.80	100 04 48	33 04 48	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 03 47.00	170 00 00	53 00 00	
ADLAID C AUS	34 44 00 S	138 40 00		09 54 06.00	023 55 00 *	- 67 00 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		11 38 00.00	006 45 00 *	- 54 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	12 39 04.00	335 12 00	14 00 00	1877
MIL RAD MASS	42 37 03 N	288 30 28	155	12 40 04.00	338 30 00	22 36 00	1536
MIL RAO MASS	42 37 03 N	288 30 28	155	12 41 00.00	344 06 00	33 42 00	1255

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1 JULY 1958 (CONT)							
MIL RAO MASS	42 37 03 N	288 30 28	155	12 49 27.00	138 36 00	14 16 00	2736
MIL RAD MASS	42 37 03 N	288 30 28	155	14 10 00.00	298 12 00	18 30 00	1872
MIL RAO MASS	42 37 03 N	288 30 28	155	14 10 59.00	287 30 00	25 24 00	1641
MIL RAO MASS	42 37 03 N	288 30 28	155	14 12 02.00	271 12 00	32 12 00	1484
MIL RAO MASS	42 37 03 N	288 30 28	155	14 13 01.00	251 06 00	36 24 00	1446
MIL RAO MASS	42 37 03 N	288 30 28	155	14 13 59.00	231 42 00	35 54 00	1499
MIL RAD MASS	42 37 03 N	288 30 28	155	14 14 59.00	215 06 00	32 36 00	1671
MIL RAO MASS	42 37 03 N	288 30 28	155	14 16 02.00	202 12 00	28 00 00	1911
MIL RAO MASS	42 37 03 N	288 30 28	155	14 17 01.00	194 12 00	23 00 00	2181
MIL RAO MASS	42 37 03 N	288 30 28	155	14 28 02.00	274 18 00	18 18 00	2061
MIL RAO MASS	42 37 03 N	288 30 28	155	14 29 01.00	262 48 00	20 42 00	1982
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 34 16.70	136 48 00	10 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 34 33.00	128 42 00	12 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 34 44.50	123 06 00	13 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 34 53.10	118 48 00	13 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 35 02.20	114 30 00	12 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 35 18.50	107 12 00	12 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 35 32.50	101 12 00	11 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 35 44.30	096 48 00	11 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 35 57.80	092 00 00	10 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 36 10.10	088 12 00	09 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 36 23.50	084 24 00	09 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 36 36.00	081 12 00	08 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 36 50.20	078 00 00	07 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 37 03.20	075 24 00	06 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 37 16.70	073 06 00	05 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 37 34.70	070 12 00	04 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 37 45.20	068 48 00	04 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 37 53.20	067 42 00	03 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 38 04.20	066 24 00	03 06 00	
2 JULY 1958							
COPNGN B DEN	55 42 13 N	012 27 09	10	00 17 44.20	010 04 48	17 10 12	
COPNGN A DEN	55 44 41 N	012 33 09		00 18 29.30	015 52 00 *	29 06 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	12 39 04.00	335 01 12	14 00 00	1877
MIL RAD MASS	42 37 03 N	288 30 28	155	12 40 04.00	338 03 00	22 03 36	1531
MIL RAD MASS	42 37 03 N	288 30 28	155	12 41 00.00	344 00 36	33 04 48	1255
MIL RAD MASS	42 37 03 N	288 30 28	155	12 49 27.00	138 03 36	14 02 24	2736
MIL RAD MASS	42 37 03 N	288 30 28	155	14 25 47.00	297 12 00	09 18 00	2473
MIL RAD MASS	42 37 03 N	288 30 28	155	14 27 02.00	286 30 00	14 00 00	2204
MIL RAO MASS	42 37 03 N	288 30 28	155	14 28 02.00	274 01 48	18 01 48	2061
MIL RAD MASS	42 37 03 N	288 30 28	155	14 29 01.00	262 04 48	20 04 12	1982
3 JULY 1958							
CAMBR U ENG	52 12 51 N	000 05 41	28	00 33 32.80	114 30 00	44 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 33 35.10	324 23 00	19 46 00	
MILLHILL ENG	51 37 00 N	359 46 00		00 33 51.00	012 26 00 *	67 42 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		00 33 56.00	010 38 00 *	73 24 00 *	
NTN STEW ENG	54 57 00 N	355 30 00		00 34 19.00	090 00 00	35 00 00	
BUSSUM NETH	52 16 52 N	005 09 18		00 34 42.00	010 26 00 *	58 06 00 *	
CHELMSFD ENG	51 43 00 N	000 30 00		00 35 14.00	004 55 00 *	53 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 35 32.14	012 42 00 *	50 48 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 04 45.05	020 02 18 *	00 04 12 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 04 51.00	020 25 00 *	03 00 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	23 05 06.70	318 48 00	37 48 00	
4 JULY 1958							
MEUDON FR	48 48 18 N	002 13 52	162	00 49 15.90	313 57 00	10 34 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 49 34.20	321 57 00	11 09 00	
THURSO SCOT	58 36 00 N	356 30 00		00 50 10.00	021 00 00 *	38 30 00 *	
THURSO SCOT	58 36 00 N	356 30 00		01 09 30.00	018 33 00 *	40 00 00 *	
MADRID SP	40 24 30 N	356 18 43	655	20 48 54.00	018 58 00 *	33 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 19 21.70	039 00 00	24 46 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 19 44.00	038 47 00	18 03 00	
NANCY FRANCE	48 41 54 N	006 13 30		23 20 06.00	022 06 00	19 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 20 11.60	038 34 00	12 51 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 20 29.30	038 33 00	10 22 00	
COPNGN A DEN	55 44 41 N	012 33 09		23 20 29.40	018 02 00 *	46 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 20 49.70	038 31 00	08 04 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
4 JULY 1958 (CONT)							
MEUDON FR	48 48 18 N	002 13 52	162	23 21 07.90	038 29 00	06 14 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 21 31.70	038 29 00	04 29 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 23 05.40	061 00 00	25 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 23 33.00	063 42 00	37 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 23 42.60	062 12 00	32 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 23 53.80	061 36 00	28 48 00	
5 JULY 1958							
AOLAIO C AUS	34 44 00 S	138 40 00		09 14 00.00	020 49 00 *	- 59 00 00 *	
AOLAIO C AUS	34 44 00 S	138 40 00		11 58 30.00	008 05 00 *	- 53 15 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 04 53.60	003 59 42 *	- 78 42 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 05 38.80	001 36 26 *	- 84 58 24 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 35 21.00	307 30 00	42 12 00	
6 JULY 1958							
AOLAIO C AUS	34 44 00 S	138 40 00		09 29 30.00	019 46 00 *	- 59 00 00 *	
AOLAIO C AUS	34 44 00 S	138 40 00		11 13 30.00	009 15 00 *	- 37 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		22 03 47.20	021 47 00 *	05 42 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 07.20	187 12 00	17 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 21.10	181 24 00	19 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 40.60	170 18 00	24 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 55.90	159 30 00	27 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 13.80	143 54 00	30 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 31.00	127 24 00	30 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 47.80	112 36 00	29 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 58.60	104 42 00	27 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 06 13.60	095 36 00	25 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 06 33.20	086 18 00	21 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 06 48.40	081 06 00	18 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 07 07.80	075 54 00	15 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 07 29.40	071 36 00	13 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 07 49.60	068 30 00	11 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 08 11.60	066 00 00	09 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 08 35.60	063 48 00	07 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 09 15.00	061 06 00	04 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 09 45.60	059 30 00	02 42 00	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 18 41.00	000 47 00 *	- 75 12 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 19 35.00	007 36 38 *	- 68 55 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 20 21.20	009 05 03 *	- 72 26 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 20 24.00	020 53 30 *	- 69 18 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 20 31.50	009 31 18 *	- 72 53 42 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 21 34.00	019 50 00 *	08 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 21 47.00	020 41 00 *	16 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 22 19.00	022 51 00 *	29 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 41.00	012 10 00 *	77 12 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 42.00	011 44 00 *	78 06 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 43.00	011 29 00 *	78 54 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 44.00	011 05 00 *	79 48 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 45.00	010 34 00 *	80 42 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 46.00	010 05 00 *	80 24 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 47.00	009 31 00 *	80 30 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 48.00	009 00 00 *	80 42 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 49.00	008 28 00 *	80 30 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 23 50.00	007 55 00 *	80 12 00 *	
ONSK-A-N-IRE	52 23 13 N	353 39 43	86	23 47 10.30	017 03 30 *	21 18 00 *	
ONSK-A-N-IRE	52 23 13 N	353 39 43	86	23 47 27.30	018 16 00 *	41 48 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 47 38.00	015 08 00 *	27 00 00 *	
HERSTMCX ENG	50 52 01 N	000 20 16	32	23 48 00.00	010 45 00 *	56 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 48 15.00	015 08 00 *	73 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 48 28.00	000 00 00	89 00 00	
N SHIELD ENG	55 01 00 N	358 33 00		23 49 00.50	001 51 00 *	63 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 49 45.00	011 38 00 *	50 24 00 *	
7 JULY 1958							
WOMRA 8 AUS	31 06 01 S	136 47 01	160	09 41 36.71	002 05 30 *	- 76 34 59 *	
WOMRA 8 AUS	31 06 01 S	136 47 01	160	09 42 09.55	000 48 00 *	- 78 48 00 *	
WOMER AUS	31 06 06 S	136 46 54	162	09 42 42.38	002 54 12 *	- 79 00 00 *	
AOLAIO C AUS	34 44 00 S	138 40 00		09 44 06.00	018 33 00 *	- 57 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 38 16.80	010 30 00	05 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
7 JULY 1958 (CONT)							
KASHIWABRA J	34 30 24 N	135 48 15	66	13 51 14.00	345 00 00	04 30 00	
KASHIWABRA J	34 30 24 N	135 48 15	66	13 51 35.00	354 00 00	03 03 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 06 11.90	066 51 08	19 01 12	
BERLN SG GER	52 28 30 N	013 20 30	50	22 16 23.00	015 46 00 *	28 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 16 33.00	014 35 00 *	35 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 16 52.00	016 15 00 *	46 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		22 16 55.00	018 40 00 *	09 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 16 57.00	018 21 00 *	72 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 16 58.00	018 30 00 *	72 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		22 17 00.00	018 55 00 *	11 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 17 06.00	021 35 00 *	76 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 17 25.00	001 15 00 *	65 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 17 32.00	001 36 00 *	61 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 17 45.60	214 06 00	19 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 18 00.30	210 42 00	24 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 18 07.00	039 23 30	24 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 18 20.50	203 24 00	32 20 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 18 35.40	194 06 00	40 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 19 01.00	160 48 00	53 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 19 23.20	117 24 00	53 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 19 33.10	102 12 00	48 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 19 42.50	092 24 00	43 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 19 56.60	082 54 00	37 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 20 11.30	076 30 00	31 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 20 34.80	070 24 00	24 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 20 52.60	067 30 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 21 15.90	064 48 00	16 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 21 44.80	062 42 00	12 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 22 08.60	061 30 00	10 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 22 49.70	060 06 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 23 17.50	059 18 00	04 54 00	
COPNGN A DEN	55 44 41 N	012 33 09		23 04 45.00	020 06 00 *	00 40 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 05 40.00	023 22 00 *	23 20 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 32 13.00	004 35 00 *	73 18 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 33 13.00	004 07 00 *	81 12 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 57 19.50	013 30 00 *	46 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 57 31.50	012 45 00 *	57 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		23 57 48.50	010 35 00 *	84 30 00 *	
8 JULY 1958							
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 00 42.40	013 49 00 *	23 48 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 00 47.40	013 44 00 *	27 24 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 00 52.40	013 38 30 *	30 54 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 01 14.40	012 54 00 *	51 00 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 01 24.40	012 14 30 *	60 36 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		00 01 32.50	012 40 00 *	35 00 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 01 40.40	010 16 00 *	70 06 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		00 01 56.50	011 40 00 *	51 00 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 02 05.40	005 48 00 *	68 42 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		00 02 06.50	011 00 00 *	56 30 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 02 13.40	005 12 00 *	65 18 00 *	
HERSTMCK ENG	50 52 01 N	000 20 16	32	00 02 17.00	009 45 00 *	54 00 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 02 47.40	004 07 30 *	53 12 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	00 02 55.40	003 59 00 *	50 36 00 *	
ADLAID A AUS	34 55 14 S	138 36 14	55	09 27 44.00	131 42 00	15 03 00	
ADLAID A AUS	34 55 14 S	138 36 14	55	09 56 50.00	202 30 00	45 00 00	
ADLAID A AUS	34 55 14 S	138 36 14	55	09 57 09.00	200 30 00	50 00 00	
WEESP NETH	52 18 12 N	005 02 21		09 57 44.00	013 17 00 *	59 30 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		12 19 57.60	000 33 30 *	56 18 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		22 17 06.00	018 56 30 *	10 36 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	22 17 15.00	020 05 00 *	20 18 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 28 00.15	133 54 00	27 18 00	
HORSBROG ENG	50 53 00 N	000 15 00		22 28 27.60	351 41 00	62 20 00	
HORSBROG ENG	50 53 00 N	000 15 00		22 28 31.40	146 54 00	40 24 00	
HORSBROG ENG	50 53 00 N	000 15 00		22 28 41.00	049 06 00	07 18 00	
HORSBROG ENG	50 53 00 N	000 15 00		22 28 42.00	020 40 00 *	35 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	22 28 45.80	016 17 00	45 18 00	
HARROGTE ENG	53 59 00 N	358 26 00		22 28 46.50	020 07 00 *	00 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	22 29 10.10	026 01 00	29 53 00	
HARROGTE ENG	53 59 00 N	358 26 00		22 29 17.50	021 36 00 *	12 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
8 JULY 1958 (CONT)							
MEUDON FR	48 48 18 N	002 13 52	162	22 29 29.00	029 31 00	22 33 00	
MEUDON FR	48 48 18 N	002 13 52	162	22 29 45.00	031 17 00	18 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	22 30 00.90	032 32 00	15 14 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 30 22.80	056 42 00	15 48 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 31 33.70	049 06 00	07 18 00	
HERSTMCX ENG	50 52 01 N	000 20 16	32	22 45 09.00	075 00 00	62 00 00	
LAPLAT C ARG	34 54 26 S	302 05 30		23 45 44.60	008 21 33 *	- 38 05 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 46 11.50	008 37 56 *	- 36 28 48 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 47 00.00	008 39 00 *	- 69 06 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 47 02.70	009 12 24 *	- 32 15 18 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 47 17.00	009 13 00 *	- 69 30 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 47 49.90	009 46 34 *	- 26 11 12 *	
9 JULY 1958							
HARROGTE ENG	53 59 00 N	358 26 00		00 15 13.00	011 06 00 *	45 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		00 15 40.00	009 54 00 *	53 30 00 *	
CHRCML B CAN	57 56 12 N	265 49 33		05 25 11.10	180 00 00	50 00 00	
CHRCML B CAN	57 56 12 N	265 49 33		07 12 49.50	000 00 00	33 00 00	
AOLAIO C AUS	34 44 00 S	138 40 00		08 24 46.00	019 02 00 *	- 41 45 00 *	
AOLAIO A AUS	34 55 14 S	138 36 14	55	09 11 14.00	292 30 00	55 00 00	
WOOMER AUS	31 06 06 S	136 46 54	162	10 08 09.20	007 13 00 *	58 54 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 08 41.85	007 39 18 *	59 56 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	10 10 55.30	106 00 00	15 24 00	
CPTWN A S AF	33 56 00 S	018 28 37	7	17 01 46.00	180 00 00	30 00 00	
PRET B S AF	25 43 43 S	028 12 42	1311	17 04 34.50	006 00 00 *	- 79 42 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	17 05 08.10	017 54 00 *	- 37 18 00 *	
UNION JOHSG	26 10 55 S	028 04 30	1806	17 06 16.40	016 00 00 *	- 78 06 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 06 22.00	016 07 00 *	- 78 30 00 *	
UNION JOHSG	26 10 55 S	028 04 30	1806	17 06 41.00	016 32 00 *	- 69 36 00 *	
JOHGB E S AF	26 08 00 S	028 01 00	1672	17 06 47.00	016 34 00 *	- 68 00 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	17 38 23.00	000 00 00	47 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 58 34.80	141 48 00	18 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 58 45.50	135 12 00	19 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 58 57.00	127 54 00	19 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 59 16.60	115 48 00	19 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 59 31.50	107 24 00	18 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 59 47.60	099 30 00	17 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 05.80	091 54 00	15 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 24.00	085 30 00	14 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 41.00	080 48 00	12 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 57.60	076 54 00	11 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 19.50	072 48 00	09 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 41.90	069 18 00	07 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 17.30	065 06 00	05 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 40.60	062 54 00	03 42 00	
LAPLAT C ARG	34 54 26 S	302 05 30		22 10 24.60	000 14 32 *	- 62 35 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 10 32.90	004 15 58 *	- 63 19 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 11 45.80	004 13 50 *	- 70 32 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 14 07.90	018 23 35 *	- 84 13 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 14 18.80	017 50 40 *	- 81 27 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 15 16.00	017 10 46 *	- 62 04 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 15 38.00	017 12 34 *	- 53 53 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 16 14.00	017 11 01 *	- 38 14 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 16 38.20	017 11 24 *	- 27 44 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 17 11.80	017 13 11 *	- 14 30 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 18 20.10	017 17 13 *	05 59 36 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 40 20.00	338 36 00	12 12 00	
HERSTMCX ENG	50 52 01 N	000 20 16	32	22 40 24.50	013 57 00 *	19 00 00 *	
HOUNSLOW ENG	51 19 00 N	359 47 00		22 40 24.80	014 35 00 *	15 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	22 40 24.90	289 54 00	23 57 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 40 31.00	343 30 00	11 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	22 40 41.00	303 35 00	26 20 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 40 45.10	243 24 00	45 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 40 45.50	349 00 00	10 12 00	
MILLHILL ENG	51 37 00 N	359 46 00		22 40 46.00	014 41 00 *	23 30 00 *	
BATTERSE ENG	51 28 00 N	359 51 00		22 40 48.60	014 33 00 *	38 48 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 40 51.30	351 42 00	09 36 00	
MILLHILL ENG	51 37 00 N	359 46 00		22 40 54.50	014 45 00 *	33 48 00 *	
HERSTMCX ENG	50 52 01 N	000 20 16	32	22 40 58.50	013 23 00 *	55 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	22 40 59.10	320 11 00	27 33 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
9 JULY 1958 (CONT)							
MILLHILL ENG	51 37 00 N	359 46 00		22 41 03.00	014 51 00 *	44 48 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 41 09.00	357 12 00	08 36 00	
HOUNSLOW ENG	51 19 00 N	359 47 00		22 41 10.20	011 50 00 *	54 00 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		22 41 11.50	014 58 00 *	56 54 00 *	
MEUOON FR	40 48 18 N	002 13 52	162	22 41 15.30	333 56 00	26 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 41 18.50	000 00 00	07 54 00	
MILLHILL ENG	51 37 00 N	359 46 00		22 41 20.00	015 17 00 *	69 24 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 41 26.50	002 24 00	07 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 41 35.50	004 30 00	06 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 41 44.50	006 30 00	06 18 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 41 46.30	356 14 00	21 16 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 41 53.50	008 30 00	05 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 42 02.50	010 06 00	05 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 42 11.00	011 18 00	04 48 00	
MEUOON FR	48 40 18 N	002 12 52	162	22 42 11.50	007 09 00	16 54 00	
HERSTMCK ENG	50 52 01 N	000 20 16	32	22 42 26.00	002 59 00 *	54 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 46 03.20	042 18 00	36 18 00	
JOKNN OB FIN	60 40 50 N	023 30 09	103	22 46 13.60	045 24 00	32 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 46 26.20	048 12 00	28 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 46 51.60	050 00 00	22 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 47 22.60	054 54 00	17 18 00	
HARROGTE ENG	53 59 00 N	358 26 00		23 21 15.00	004 50 00 *	79 00 00 *	
10 JULY 1958							
LAPLAT C ARG	34 54 26 S	302 05 30		00 01 35.60	010 18 02 *	- 00 24 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 01 57.60	010 40 15 *	- 03 50 35 *	
PERTH AUS	32 00 07 S	115 51 10	5	10 21 33.50	133 12 00	30 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 08 39.80	295 00 00	19 30 00	
PRET B S AF	25 43 43 S	028 17 42	1311	16 26 24.00	010 49 00 *	- 01 42 00 *	
PRET RD S AF	25 47 18 S	028 13 43	1542	16 26 34.20	011 02 00 *	03 00 00 *	
CPTWN A S AF	23 56 00 S	018 28 37	7	17 15 45.00	130 00 00	48 30 00	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 16 34.00	009 13 00 *	- 60 30 00 *	
JOHNSG C S AF	26 07 00 S	028 00 00	1615	17 18 08.50	010 07 00 *	- 58 48 00 *	
JOHNSG C S AF	26 07 00 S	028 00 00	1615	17 18 43.00	011 12 00 *	- 53 30 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 19 08.60	012 01 00 *	- 44 48 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 19 20.80	012 03 00 *	- 44 24 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 19 12.00	011 52 00 *	- 45 48 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 19 53.50	013 13 30 *	- 23 00 00 *	
JOHNSG C S AF	26 07 00 S	028 00 00	1615	17 19 55.50	013 19 00 *	- 23 00 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 20 00.00	013 18 00 *	- 23 12 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 20 09.60	013 36 00 *	- 12 36 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 20 18.00	013 42 00 *	- 12 00 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 20 54.00	014 27 00 *	- 09 42 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 30 49.40	010 35 06 *	- 13 07 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 08 18.50	019 33 30 *	14 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 08 39.50	021 07 00 *	26 30 00 *	
JOKNN OB FIN	60 40 50 N	023 30 09	103	21 09 42.30	184 42 00	20 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 10 00.90	175 24 00	25 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 10 13.30	167 06 00	28 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 10 34.30	148 40 00	32 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 10 48.00	135 12 00	33 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 11 04.50	119 12 00	32 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 11 13.50	111 18 00	31 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 11 32.60	097 36 00	27 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 11 47.80	089 42 00	24 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 12 05.00	082 48 00	21 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 12 20.60	078 06 00	18 42 00	
JOKNN OB FIN	60 40 50 N	023 30 09	103	21 12 39.20	073 42 00	16 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 01.70	069 48 00	13 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 30.00	066 18 00	10 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 10.30	062 48 00	07 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 30.90	061 30 00	05 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 51.50	060 00 00	03 48 00	
COPNGN B OEN	55 42 12 N	012 27 09	10	21 44 10.00	201 48 00	33 24 00	
HOUNSLOW ENG	51 19 00 N	359 47 00		22 07 37.00	019 20 00 *	12 00 00 *	
COPNGN B OEN	55 42 12 N	012 27 09	10	22 07 40.50	351 36 00	14 24 00	
HORSBROG ENG	50 53 00 N	000 15 00		22 07 42.00	121 00 00	54 00 00	
BONN B GER	50 43 45 N	007 05 47		22 08 43.87	082 15 00	86 00 00	
LAPLAT C ARG	34 54 26 S	302 05 30		22 26 20.00	010 13 27 *	- 69 59 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 26 48.30	011 43 20 *	- 66 25 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 JULY 1958 (CONT)							
LAPLAT C ARG	34 54 26 S	302 05 30		22 26 59.90	012 16 23 *	- 63 47 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 27 48.30	013 57 53 *	- 45 04 54 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 51 37.50	315 42 00	06 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 51 54.50	322 12 00	06 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 52 10.00	327 48 00	06 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 52 25.50	333 30 00	06 18 00	
HORSBRDG ENG	50 53 00 N	000 15 00		22 52 28.00	290 00 00	27 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	22 52 55.30	318 43 00	15 31 00	
BEXHILL ENG	50 51 00 N	000 30 00		22 53 00.00	011 00 00 *	44 00 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		22 53 01.40	012 10 48 *	26 18 00 *	
HORSBRDG ENG	50 53 00 N	000 15 00		22 53 08.00	321 00 00	28 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	22 53 09.80	326 29 00	15 33 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 53 23.50	351 30 00	04 42 00	
MILLHILL ENG	51 37 00 N	359 46 00		22 53 24.00	009 34 00 *	60 54 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		22 53 26.10	011 24 30 *	37 12 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 53 28.00	352 48 00	04 30 00	
MILLHILL ENG	51 37 00 N	359 46 00		22 53 33.00	008 42 00 *	63 18 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		22 53 34.10	011 06 42 *	40 54 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	22 53 34.60	339 37 00	15 02 00	
BUSSUM NETH	52 16 52 N	005 09 18		22 53 40.90	010 53 18 *	43 30 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		22 53 41.00	007 38 00 *	64 12 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 53 42.50	356 12 00	04 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 53 58.00	359 42 00	03 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 54 06.50	001 36 00	03 06 00	
BUSSUM NETH	52 16 52 N	005 09 18		22 54 12.10	009 15 18 *	54 42 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 54 15.50	003 30 00	02 48 00	
SNEEK NETH	53 02 25 N	005 39 52		22 54 15.90	009 37 48 *	55 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	22 54 15.90	356 57 00	12 43 00	
MEUDON FR	48 48 18 N	002 13 52	162	22 54 32.80	002 40 00	11 17 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 54 33.50	006 24 00	02 00 00	
COPNGN A DEN	55 44 41 N	012 33 09		22 54 35.04	012 07 00 *	36 24 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 54 50.00	009 30 00	01 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 54 59.00	010 48 00	00 54 00	
BUSSUM NETH	52 16 52 N	005 09 18		22 55 06.90	005 57 48 *	54 42 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 55 07.00	011 54 00	00 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 55 15.50	013 12 00	00 18 00	
STEENWK NETH	52 47 29 N	006 06 38		22 55 17.40	005 56 00 *	55 12 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 55 24.50	016 12 00	00 18 00	
JOKNN 03 FIN	60 48 50 N	023 30 09	103	22 55 47.20	278 12 00	23 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 55 56.90	281 18 00	26 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 56 06.30	285 00 00	29 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 56 19.90	292 06 00	34 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 56 29.90	298 36 00	37 48 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 56 38.30	306 24 00	41 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 56 48.50	321 24 00	46 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 57 52.70	026 30 00	38 54 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 58 17.10	038 42 00	31 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 58 43.30	046 30 00	25 30 00	
COPNGN 8 DEN	55 42 13 N	012 27 09	10	23 54 54.80	131 36 00	25 30 00	
11 JULY 1958							
PORTLAND ORE	45 29 19 N	237 22 27	46	05 45 43.00	023 35 15 *	46 15 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	08 47 58.63	160 42 54	26 51 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 48 11.97	157 05 45	27 54 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 48 26.94	152 48 07	28 55 12	
WOOMER AUS	31 06 07 S	136 47 07	162	08 48 40.82	148 24 36	29 48 43	
WOOMER AUS	31 06 07 S	136 47 07	162	08 48 51.82	143 56 06	30 29 24	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 08.72	138 29 42	30 59 42	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 19.72	134 28 30	31 13 30	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 33.03	129 06 54	31 19 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 47.37	123 27 36	31 05 42	
WOOMER AUS	31 06 07 S	136 47 07	162	08 49 56.47	119 45 18	30 48 54	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 14.09	112 48 36	29 52 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 26.86	107 52 48	28 57 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 39.86	103 07 30	27 49 12	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 50.53	099 21 18	26 45 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 50 58.76	096 34 48	25 51 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 51 09.63	093 11 42	24 40 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 51 19.89	089 57 36	23 25 37	
WOOMER AUS	31 06 07 S	136 47 07	162	08 51 26.56	088 04 40	22 37 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 51 33.97	086 06 36	21 43 12	

STATION		LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
11 JULY 1958 (CONT)								
WOOMER	AUS	31 06 07 S	136 47 07	162	08 51 41.45	084 08 24	20 49 12	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 51 50.82	081 54 07	19 42 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 00.69	079 32 24	18 28 12	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 07.42	078 06 57	17 40 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 17.17	076 08 06	16 31 30	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 25.42	074 31 19	15 34 12	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 33.49	073 00 00	14 37 12	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 41.75	071 34 15	13 42 46	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 52.34	069 50 31	12 33 00	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 52 59.81	068 41 24	11 45 07	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 53 07.73	067 32 03	10 55 12	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 53 15.05	066 30 54	10 09 54	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 53 29.52	065 07 55	09 09 54	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 53 33.32	054 11 06	08 24 07	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 53 41.41	063 12 36	07 39 28	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 53 48.47	062 25 30	07 00 00	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 54 01.39	061 01 12	05 52 30	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 54 13.66	059 46 48	04 51 28	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 54 23.16	058 56 24	04 03 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	08 54 30.81	058 13 12	03 26 24	
WOOMER	AUS	31 06 06 S	136 46 54	162	10 35 17.60	010 03 30 *	- 05 10 00 *	
WOOMER	AUS	31 06 06 S	136 46 54	162	10 36 07.01	010 38 00 *	06 55 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 30 49.40	010 35 06 *	- 13 07 00 *	
PRET B S AF		25 43 43 S	028 12 42	1311	17 30 56.40	010 36 00 *	- 13 18 00 *	
CPTWN A S AF		33 56 00 S	018 28 37	7	17 31 03.00	014 52 00 *	30 14 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 31 30.80	011 13 00 *	02 30 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	17 31 39.68	010 28 18 *	- 12 58 00 *	
PRET B S AF		25 43 43 S	028 12 42	1311	17 31 59.60	011 32 30 *	11 12 00 *	
JOHNB C S AF		26 07 00 S	028 00 00	1615	17 32 04.00	011 43 00 *	15 30 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 32 05.50	011 40 00 *	16 00 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	17 32 20.21	011 04 06 *	02 06 00 *	
JOHNB C S AF		26 07 00 S	028 00 00	1615	17 33 18.00	012 48 00 *	39 30 00 *	
OLFSFTN S AF		25 57 33 S	028 14 53	1544	17 34 10.12	012 41 24 *	40 23 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 42 28.00	010 23 00 *	10 30 00 *	
MEUDON FR		48 48 18 N	002 13 52	162	21 17 20.60	169 49 00	25 51 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 17 34.10	158 39 00	30 14 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 17 47.50	143 23 00	34 41 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 18 02.40	121 44 00	36 48 00	
CAMBR U ENG		52 12 51 N	000 05 41	28	21 18 26.50	126 48 00	18 12 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 18 30.80	087 26 00	31 28 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 18 46.40	075 12 00	26 32 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 19 01.00	233 33 00	34 12 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 19 04.00	066 13 00	21 37 00	
CAMBR U ENG		52 12 51 N	000 05 41	28	21 19 21.40	091 54 00	16 06 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 19 22.60	015 02 30 *	27 00 00 *	
MEUDON FR		48 48 18 N	002 13 52	162	21 19 27.20	058 37 00	16 31 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 19 28.00	015 10 00 *	32 48 00 *	
BERLN SG GER		52 28 30 N	013 20 30	50	21 19 39.60	013 51 30	71 36 00	
HANOV B GER		52 22 10 N	009 45 11		21 19 41.90	020 39 57 *	45 07 33 *	
HANOV A GER		52 18 20 N	009 35 42	110	21 19 42.00	020 25 00 *	42 30 00 *	
MEUDON FR		48 48 18 N	002 13 52	162	21 19 42.10	055 18 00	14 03 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 19 55.70	052 56 00	12 05 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 20 00.60	019 34 00 *	74 42 00 *	
MEUDON FR		48 48 18 N	002 13 52	162	21 20 11.60	050 46 00	10 05 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 20 27.90	049 03 00	08 24 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 20 31.70	256 15 30	38 06 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 20 55.80	046 44 00	06 08 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 21 03.70	151 21 30	24 36 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 21 42.70	249 15 30	15 42 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 22 57.60	082 42 00	38 35 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 23 27.60	072 06 00	27 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 23 36.40	070 12 00	25 12 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 23 45.80	068 36 00	22 48 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 23 56.80	067 00 00	20 30 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 24 07.00	065 54 00	18 42 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 24 21.80	064 24 00	16 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 24 34.40	063 30 00	14 36 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 24 46.40	062 42 00	13 06 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 24 54.00	062 12 00	12 12 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 25 15.80	061 12 00	10 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
11 JULY 1958 (CONT) -							
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 35.00	060 30 00	08 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 48.40	060 06 00	07 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 08.40	059 36 00	05 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 26.80	059 12 00	04 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 40.60	058 54 00	03 48 00	
SCHNTDY A NY	42 53 32 N	285 58 57	235	21 27 58.00	012 13 00 *	57 15 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	22 20 10.10	328 00 00	46 00 00	
HOUNSLOW ENG	51 19 00 N	359 47 00		22 42 53.00	010 58 00 *	59 00 00 *	
CHELMSFO ENG	51 43 00 N	000 30 00		22 42 58.00	011 05 00 *	57 00 00 *	
ORFONESS ENG	52 06 00 N	001 36 00		22 43 28.00	338 54 00	32 18 00	
ORFONESS ENG	52 06 00 N	001 36 00		22 43 32.00	342 30 00	31 42 00	
ORFONESS ENG	52 06 00 N	001 36 00		22 43 42.00	351 06 00	29 48 00	
MILLHILL ENG	51 37 00 N	359 46 00		22 43 50.00	004 55 00 *	67 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 29.40	294 12 00	25 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 47.70	302 12 00	29 42 00	

12 JULY 1958							
OUNLAP ONTAR	43 51 46 N	280 34 40	244	02 28 07.00	021 28 48 *	38 42 00 *	
QUEBEC CAN	46 53 03 N	288 31 06		02 28 30.20	014 07 00 *	19 08 00 *	
QUEBEC CAN	46 53 03 N	288 31 06		02 29 06.20	014 52 00 *	74 12 00 *	
QUEBEC CAN	46 53 03 N	288 31 06		02 29 55.20	001 42 00 *	62 19 00 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	02 53 23.00	018 59 00 *	05 18 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	03 58 51.80	000 40 00 *	56 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 12 33.00	053 30 00	16 24 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 55 13.06	011 00 00 *	61 00 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	08 58 05.31	010 30 43	24 45 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 58 34.85	007 06 03	28 47 06	
WOOMER AUS	31 06 07 S	136 47 07	162	08 58 50.44	004 48 18	31 07 48	
WOOMER AUS	31 06 07 S	136 47 07	162	08 59 12.70	000 43 15	34 53 16	
WOOMRA B AUS	31 06 01 S	136 47 01	160	08 59 24.00	180 00 00	36 00 00	
WOOMER AUS	31 06 07 S	136 47 07	162	08 59 24.53	178 05 27	37 03 28	
WOOMER AUS	31 06 07 S	136 47 07	162	08 59 33.68	175 39 00	38 50 24	
WOOMER AUS	31 06 07 S	136 47 07	162	08 59 33.68	017 53 90	38 50 24	
WOOMER AUS	31 06 07 S	136 47 07	162	08 59 50.27	170 27 36	42 16 12	
WOOMER AUS	31 06 07 S	136 47 07	162	08 59 57.42	167 47 06	43 46 30	
WOOMER AUS	31 06 07 S	136 47 07	162	09 00 13.11	160 17 24	47 16 12	
WOOMER AUS	31 06 07 S	136 47 07	162	09 00 23.47	155 26 06	49 06 39	
WOOMER AUS	31 06 07 S	136 47 07	162	09 00 30.17	150 57 00	50 25 12	
WOOMER AUS	31 06 06 S	136 46 54	162	09 00 32.50	016 01 00 *	59 33 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	09 00 35.71	147 10 30	51 21 03	
WOOMER AUS	31 06 07 S	136 47 07	162	09 00 51.98	134 43 48	53 23 16	
WOOMER AUS	31 06 07 S	136 47 07	162	09 00 55.32	132 09 54	53 36 36	
WOOMER AUS	31 06 07 S	136 47 07	162	09 01 12.48	117 03 18	53 48 00	
WOOMER AUS	31 06 06 S	136 46 54	162	09 01 21.79	016 18 36 *	34 54 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	09 01 26.57	104 41 06	52 27 54	
WOOMER AUS	31 06 07 S	136 47 07	162	09 01 33.73	098 54 28	51 18 46	
WOOMER AUS	31 06 07 S	136 47 07	162	09 01 44.84	090 43 30	49 01 48	
WOOMER AUS	31 06 07 S	136 47 07	162	09 01 52.39	085 45 28	47 12 54	
WOOMER AUS	31 06 07 S	136 47 07	162	09 01 58.31	081 40 12	45 25 55	
WOOMER AUS	31 06 07 S	136 47 07	162	09 02 11.04	075 18 07	42 16 12	
WOOMER AUS	31 06 06 S	136 46 54	162	09 02 11.09	016 29 36 *	10 26 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	09 02 23.11	070 29 24	38 57 21	
WOOMER AUS	31 06 07 S	136 47 07	162	09 02 45.52	063 03 28	32 55 30	
WOOMER AUS	31 06 07 S	136 47 07	162	09 02 55.66	060 21 36	30 26 24	
WOOMER AUS	31 06 07 S	136 47 07	162	09 03 02.40	060 21 36	28 45 36	
WOOMER AUS	31 06 07 S	136 47 07	162	09 03 08.66	057 25 08	27 24 36	
WOOMER AUS	31 06 07 S	136 47 07	162	09 03 19.92	055 16 30	24 58 48	
WOOMER AUS	31 06 07 S	136 47 07	162	09 03 26.13	054 09 46	23 40 22	
WOOMER AUS	31 06 07 S	136 47 07	162	09 03 32.84	053 04 12	22 25 48	
WOOMER AUS	31 06 06 S	136 46 54	162	09 03 33.10	016 45 42 *	16 44 00	
WOOMER AUS	31 06 07 S	136 47 07	162	09 03 43.43	051 33 54	20 24 00	
WOOMER AUS	31 06 07 S	136 47 07	162	09 03 57.37	049 48 36	18 02 06	
WOOMER AUS	31 06 07 S	136 47 07	162	09 04 06.13	048 46 30	16 36 39	
WOOMER AUS	31 06 07 S	136 47 07	162	09 04 11.65	048 15 36	15 45 00	
WOOMER AUS	31 06 07 S	136 47 07	162	09 04 18.81	047 29 24	14 39 36	
WOOMER AUS	31 06 07 S	136 47 07	162	09 04 27.17	046 43 30	13 31 48	
WOOMER AUS	31 06 07 S	136 47 07	162	09 04 38.46	045 47 06	12 01 30	
WOOMER AUS	31 06 07 S	136 47 07	162	09 04 46.61	045 07 12	11 00 36	
WOOMER AUS	31 06 07 S	136 47 07	162	09 05 01.42	044 05 24	09 16 04	
WOOMER AUS	31 06 07 S	136 47 07	162	09 05 11.50	043 25 48	08 07 48	

STATION		LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
12 JULY 1958 (CONT)								
WOOMER AUS		31 06 07 S	136 47 07	162	09 05 36.65	042 00 36	05 35 06	
WOOMER AUS		31 06 07 S	136 47 07	162	09 05 52.97	041 12 36	04 07 12	
WOOMER AUS		31 06 07 S	136 47 07	162	09 06 03.62	040 44 06	03 11 31	
PERTH AUS		32 00 07 S	115 51 10	5	10 42 50.70	299 54 00	34 12 00	
JOHBBG C S AF		26 07 00 S	028 00 00	1615	17 42 27.00	010 26 00 *	10 00 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 42 28.00	010 23 00 *	10 30 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 42 31.60	010 27 00 *	13 00 00 *	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 43 04.00	100 00 00	14 06 00	
UNION JOHSBG		26 10 55 S	028 04 30	1806	17 43 21.50	010 55 00 *	24 00 00 *	
MEUDON FR		48 48 18 N	002 13 52	162	21 27 47.10	225 45 00	21 29 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 28 08.80	229 19 00	31 34 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 28 20.20	232 43 00	39 39 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 28 37.90	245 39 00	57 37 00	
SNEEK NETH		53 02 25 N	005 39 52		21 28 38.90	016 08 24 *	16 00 00 *	
MEUDON FR		48 48 18 N	002 13 52	162	21 29 01.80	344 42 00	71 12 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 29 04.00	263 54 00	23 24 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 29 15.00	273 12 00	26 54 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 29 20.20	019 00 00	50 28 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 29 21.00	291 48 00	29 24 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 29 30.00	294 00 00	31 30 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 29 36.00	303 54 00	32 24 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 29 38.60	027 09 00	36 01 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 29 42.00	314 48 00	32 18 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 29 55.00	328 48 00	30 24 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 29 57.20	030 28 00	26 54 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 30 01.00	336 12 00	28 24 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 30 10.00	345 30 00	25 36 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 30 16.00	348 54 00	24 24 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 30 19.00	032 42 00	20 13 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 30 27.00	356 42 00	21 24 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 30 34.40	033 40 00	16 35 00	
BERLN SG GER		52 28 30 N	013 20 30	50	21 30 34.60	305 05 48	34 48 00	
PIC MIDI FR		42 56 12 N	000 08 32	2862	21 30 35.00	359 48 00	20 12 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 30 56.40	034 43 00	12 54 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 31 09.20	035 09 00	11 04 00	
COPNGN A DEN		55 44 41 N	012 33 09		21 31 10.04	016 16 00 *	59 00 00 *	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 31 22.20	237 12 00	17 06 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 31 25.70	035 37 00	09 18 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 31 31.60	237 12 00	19 18 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 31 39.50	237 12 00	21 48 00	
MEUDON FR		48 48 18 N	002 13 52	162	21 31 52.70	036 11 00	06 36 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 31 57.50	237 06 00	28 06 00	
COPNGN A DEN		55 44 41 N	012 33 09		21 32 00.00	000 48 00 *	59 10 00 *	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 32 04.00	237 00 00	31 06 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 32 10.70	237 00 00	34 54 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 32 21.10	236 48 00	41 12 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 32 30.90	236 42 00	49 00 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 32 40.70	236 24 00	57 48 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 32 48.50	235 18 00	66 18 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 33 40.30	059 30 00	52 36 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 34 20.90	059 06 00	30 48 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 34 32.50	058 42 00	27 36 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 34 36.70	058 42 00	26 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 34 44.00	058 42 00	24 30 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 34 54.50	058 42 00	22 06 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 35 03.70	058 42 00	20 18 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 35 12.40	058 42 00	18 48 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 35 19.10	058 48 00	17 36 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 35 29.50	058 48 00	16 12 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 35 36.90	058 48 00	15 00 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 35 45.50	058 48 00	14 06 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 35 53.30	058 48 00	13 12 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 36 05.20	058 54 00	11 54 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 36 19.90	058 54 00	10 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 36 36.70	058 54 00	08 54 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 36 55.60	059 00 00	07 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	21 37 16.50	059 00 00	06 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
13 JULY 1958							
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 37 12.00	019 02 44 *	11 22 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 37 17.20	019 25 06 *	16 16 00 *	
COLUMBUS O	40 01 49 N	276 57 46	229	02 37 18.00	012 15 00 *	57 18 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	02 37 34.00	011 47 00 *	47 36 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	02 37 37.00	296 00 00	50 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	02 37 43.00	012 21 00 *	57 00 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	02 37 52.40	021 01 00 *	24 00 00 *	
OAYTON B O	39 50 14 N	275 44 03	249	02 38 26.50	001 23 12 *	60 30 00 *	
HANHTN B KAN	39 13 51 N	263 22 54	409	02 47 41.30	049 37 00	11 29 00	
ALBUQ C NM	35 05 51 N	253 25 38	1603	04 21 04.00	007 39 30 *	58 49 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	06 05 25.20	010 45 15 *	32 15 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 06 39.63	218 08 20	15 31 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 07 17.94	220 09 21	19 05 24	
WOOMER AUS	31 06 06 S	136 46 54	162	09 07 45.00	006 19 30 *	60 09 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 07 52.36	222 31 48	22 44 20	
WOOMER AUS	31 06 06 S	136 46 54	162	09 08 01.60	006 29 00 *	60 48 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 08 14.16	274 40 30	25 40 12	
WOOMER AUS	31 06 06 S	136 46 54	162	09 08 18.93	016 44 00 *	61 29 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 08 50.69	229 12 36	30 58 51	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 09 06.98	231 59 16	33 35 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 09 32.67	237 37 55	38 37 04	
WOOMER AUS	31 06 07 S	136 47 07	162	09 09 42.33	212 16 26	34 17 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 09 50.26	242 55 19	42 19 12	
WOOMER AUS	31 06 07 S	136 47 07	162	09 09 51.16	212 41 31	36 14 56	
WOOMER AUS	31 06 07 S	136 47 07	162	09 09 58.04	213 03 14	37 54 39	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 06.50	213 32 42	40 02 52	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 10 07.52	249 47 42	46 04 37	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 18.45	214 30 03	43 23 34	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 25.11	214 58 48	45 22 44	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 31.05	215 37 12	47 23 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 10 33.01	264 19 48	51 21 54	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 38.22	216 29 06	49 44 31	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 44.21	217 14 06	51 57 28	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 49.98	218 16 26	54 16 48	
WOOMER AUS	31 06 07 S	136 47 07	162	09 10 59.95	220 22 08	58 28 58	
WOOMER AUS	31 06 07 S	136 47 07	162	09 11 06.01	222 06 35	61 14 06	
AOLAI A AUS	34 55 14 S	138 36 14	55	09 11 14.00	292 30 00	55 00 00	
WOOMER AUS	31 06 07 S	136 47 07	162	09 11 15.82	226 00 28	65 59 52	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 11 15.97	300 00 25	54 21 18	
WOOMER AUS	31 06 07 S	136 47 07	162	09 11 22.19	229 39 14	69 10 30	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 11 42.16	321 43 12	50 09 00	
WOOMRA B AUS	31 06 01 S	136 47 01	160	09 11 49.00	270 00 00	81 00 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 11 57.71	284 18 32	54 28 55	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 11 58.20	332 22 01	46 16 58	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 12 12.36	339 37 08	42 05 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 12 23.96	344 38 34	38 59 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 12 41.46	350 30 07	34 11 38	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 12 58.22	354 53 24	29 54 46	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 05.75	015 52 19	45 42 28	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 12.11	016 45 00	43 08 24	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 15.22	017 01 40	41 36 43	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 18.20	017 27 36	40 26 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 13 22.96	359 43 44	24 21 00	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 23.10	017 47 49	38 38 20	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 26.03	018 08 34	37 29 06	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 31.33	018 29 27	35 37 12	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 36.05	018 56 34	33 59 16	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 40.53	019 07 12	32 34 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 13 49.90	003 34 04	19 12 43	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 50.72	019 38 27	29 33 39	
WOOMER AUS	31 06 07 S	136 47 07	162	09 13 55.03	019 52 48	28 28 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 13 58.76	004 35 24	17 42 57	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 14 16.86	006 21 25	14 44 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 14 32.62	007 46 51	12 43 04	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 15 00.78	009 43 22	09 03 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 15 15.56	010 47 06	07 32 20	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 15 34.23	011 30 36	05 29 49	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 15 43.16	012 02 34	04 43 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 15 58.96	012 44 16	03 18 39	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 16 08.11	013 25 37	02 33 36	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
13 JULY 1958 (CONT)							
SALSBURY AUS	34 43 58 S	138 38 47	32	09 16 17.44	013 21 00	01 48 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 16 27.08	013 42 00	01 01 12	
WOOMER AUS	31 06 06 S	136 46 54	162	09 20 23.47	006 41 48 *	- 60 10 00 *	
KONKO J	34 32 31 N	133 37 40	4	11 13 11.00	090 00 00	19 00 00	
FUKUOKA 1 J	33 37 25 N	130 25 40	16	11 13 39.76	018 16 18 *	42 45 00 *	
FUKUOKA 1 J	33 37 25 N	130 25 40	16	11 13 43.48	018 42 11 *	46 34 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	11 13 46.00	019 11 00 *	- 13 00 00 *	
FUKUOKA 1 J	33 37 25 N	130 25 40	16	11 13 55.72	020 12 00 *	54 10 00 *	
MITAKA J	35 40 20 N	139 32 30	50	11 13 59.80	043 30 00	39 12 00	
FUKUOKA 1 J	33 37 25 N	130 25 40	16	11 14 00.62	020 44 00 *	55 25 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	11 14 04.00	020 40 00 *	- 48 00 00 *	
TAKADA J	37 06 38 N	138 15 22	23	11 14 13.00	020 52 00 *	- 32 00 00 *	
HIMEJI J	34 50 25 N	134 41 24	25	11 14 15.00	057 48 00	11 30 00	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 14 28.00	016 22 00 *	26 00 00 *	
FUKUOKA 1 J	33 37 25 N	130 25 40	16	11 14 31.30	022 49 42 *	55 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 14 48.00	017 19 00 *	21 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	12 29 59.71	010 45 15 *	32 15 00 *	
JOHNSB C S AF	26 07 00 S	028 00 00	1615	16 05 42.00	016 43 00 *	- 68 42 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	16 05 43.00	016 40 00 *	- 68 30 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	16 05 44.00	016 36 12 *	- 68 12 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	16 05 48.20	016 36 00 *	- 68 48 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	16 06 43.60	016 48 06 *	- 41 06 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	16 06 48.10	016 47 00 *	- 42 06 00 *	
JOHNSB C S AF	26 07 00 S	028 00 00	1615	16 06 50.50	016 49 00 *	- 38 00 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	16 06 55.20	016 47 30 *	- 34 12 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	16 06 56.30	016 46 54 *	- 34 12 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	16 09 38.90	017 13 00 *	25 00 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	21 35 44.20	003 19 30 *	- 52 40 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 37 31.00	293 00 00	13 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2662	21 37 39.00	297 18 00	13 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 37 47.00	302 06 00	14 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 37 54.00	305 18 00	14 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 37 58.20	224 12 00	12 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 02.50	311 18 00	14 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 10.00	315 48 00	14 18 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 38 13.00	013 25 00 *	- 02 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 21.50	322 42 00	14 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	21 38 25.90	267 22 00	20 03 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 28.00	326 48 00	14 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 34.00	330 00 00	13 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	21 38 41.60	278 07 00	23 55 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 42.50	334 30 00	13 24 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 38 43.00	013 45 00 *	23 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 50.50	338 18 00	13 00 00	
HORSBRDG ENG	50 53 00 N	000 15 00		21 38 55.00	249 00 00	39 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	21 38 57.90	290 05 00	27 39 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 38 58.00	341 42 00	12 24 00	
FARNHAM ENG	51 12 00 N	359 12 00		21 39 04.00	014 36 00 *	25 30 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 39 05.00	344 48 00	11 54 00	
CHELMSFD ENG	51 43 00 N	000 30 00		21 39 10.00	014 10 00 *	22 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 39 10.60	230 06 00	43 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 39 11.50	347 13 00	11 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	21 39 15.20	307 08 00	30 17 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 39 21.00	351 18 00	10 42 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 39 25.00	013 26 00 *	54 00 00 *	
HORSBRDG ENG	50 53 00 N	000 15 00		21 39 26.00	299 00 00	58 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 39 28.50	353 48 00	10 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	21 39 30.10	322 57 00	30 41 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 39 36.00	356 06 00	09 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 39 42.50	358 06 00	09 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	21 39 46.50	338 50 00	28 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 39 51.50	000 36 00	08 24 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 39 52.00	005 05 00 *	87 00 00 *	
HORSBRDG ENG	50 53 00 N	000 15 00		21 39 52.00	001 00 00	50 00 00	
GELEEN NETH	50 57 55 N	005 49 27		21 39 56.40	011 05 18 *	44 54 00 *	
PIC MIDI FR	42 56 12 N	000 06 32	2862	21 39 59.50	002 42 00	07 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	21 40 04.30	352 31 00	25 27 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 40 09.00	005 00 00	07 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 40 18.00	006 54 00	06 24 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 40 22.00	001 58 00 *	64 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
13 JULY 1958 (CONT)							
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 40 26.50	008 24 00	05 00 00	
REXHILL ENG	50 51 00 N	000 30 00		21 40 27.00	002 00 00 *	63 30 00 *	
BATTERSE ENG	51 28 00 N	359 51 00		21 40 28.20	000 57 00 *	60 24 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	21 40 29.10	005 13 00	20 14 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 40 34.50	009 42 00	05 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 40 34.60	274 24 24	18 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 40 44.50	011 36 00	04 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	21 40 45.70	011 14 00	17 14 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 40 53.00	012 54 00	04 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	21 41 04.30	016 12 00	14 20 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 41 14.60	299 06 24	22 42 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 41 28.00	001 13 00 *	36 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 41 46.10	040 00 00	14 36 00	
COPNGN A DEN	55 44 41 N	012 33 09		21 42 11.00	012 35 00 *	41 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		21 42 37.04	011 22 00 *	63 18 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 42 47.40	041 00 00	07 42 00	
COPNGN B DEN	55 42 13 N	012 27 09	10	22 40 07.40	074 48 00	14 42 00	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 00 12.00	011 13 00 *	- 19 24 00 *	
14 JULY 1958							
WPALMB A FLA	26 39 30 N	279 55 20	5	00 59 26.00	090 00 00	14 00 00	
FT WTH N TEX	32 44 40 N	262 37 54	186	02 44 25.00	015 37 25 *	13 00 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	02 44 25.70	015 46 00 *	- 35 54 00 *	
OALLAS P TEX	32 51 10 N	263 14 29	172	02 45 01.50	018 40 00 *	61 18 00 *	
FT WTH C TEX	32 42 15 N	262 37 30	204	02 45 10.00	020 48 00 *	60 00 00 *	
BTLSVL A OKL	36 42 18 N	264 03 36	213	02 46 04.50	020 40 00 *	45 24 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	02 46 29.50	270 00 00	38 28 00	
TERRHAUT INO	39 31 38 N	272 36 10	155	02 46 30.43	270 00 00	38 16 48	
DANVILLE ILL	40 08 57 N	272 22 26	189	02 47 02.00	292 30 00	38 30 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 47 25.00	012 23 10 *	51 50 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 47 29.30	012 14 12 *	58 09 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	02 47 41.00	050 06 00	11 25 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 47 41.00	009 15 00 *	50 00 00 *	
LEMONT ILL	41 41 48 N	272 00 19	229	02 47 54.00	000 00 00	35 06 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	02 48 05.00	000 00 00	30 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	02 48 52.80	001 02 00 *	58 30 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	02 49 14.00	010 15 00 *	44 30 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	03 03 40.80	042 48 00	20 10 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 27 47.00	236 13 51	14 13 48	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 28 16.00	247 57 28	21 19 30	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 28 46.00	273 00 00	31 04 30	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 29 03.00	296 23 56	34 43 15	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 29 16.00	315 48 14	33 51 18	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 29 46.00	347 30 00	25 02 20	
CHIN LAK CAL	35 39 25 N	242 20 13	701	04 29 59.00	006 53 00 *	77 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 30 11.80	113 00 00	15 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 30 16.00	002 41 13	16 55 19	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 30 46.00	010 31 40	11 32 52	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 31 16.00	015 07 48	07 46 19	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 31 46.00	018 08 34	04 52 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 32 16.00	020 14 06	02 37 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 32 31.00	020 28 40	00 56 31	
PORTLAND ORE	45 29 19 N	237 22 27	46	06 17 34.20	009 55 15 *	41 15 00 *	
OTSU J	35 00 24 N	135 52 08	90	11 14 15.00	057 48 00	11 30 00	
HIROSHIMA J	34 22 08 N	132 28 10	3	11 22 13.00	015 39 00 *	- 09 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	11 22 20.00	090 00 00	47 00 00	
FUCHU J	34 34 17 N	133 14 19	30	11 22 56.00	017 54 00 *	52 00 00 *	
TOKUSHIMA J	34 07 34 N	134 35 32	1	11 23 07.00	000 00 00	46 00 00	
HIMEJI J	34 50 25 N	134 41 24	25	11 23 18.00	007 54 00	46 00 00	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 23 36.00	013 22 00 *	- 11 00 00 *	
MT FUJI 1 J	35 31 20 N	138 48 50	815	11 23 38.00	012 26 00 *	57 00 00 *	
OTSU J	35 00 24 N	135 52 08	90	11 23 42.00	001 49 00 *	90 00 00 *	
NAGANO J	35 30 50 N	137 50 44	500	11 24 27.00	012 20 00 *	57 00 00 *	
YAMAGATA J	38 15 16 N	140 20 59	151	11 24 34.00	334 12 00	30 30 00	
MIZUKAIDO J	36 00 56 N	139 59 18	12	11 24 44.00	000 00 00	18 30 00	
SAPPORO J	43 04 49 N	141 22 13	20	11 24 52.00	013 44 00 *	18 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	11 25 27.00	015 08 00 *	73 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 25 36.00	013 45 00 *	50 00 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	16 15 13.30	009 46 00 *	- 65 06 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	16 16 07.30	012 05 42 *	- 50 24 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
14 JULY 1958 (CONT)							
PRET B S AF	25 43 43 S	028 12 42	1311	16 16 12.60	012 07 00 *	- 51 24 00 *	
PPET B S AF	25 43 43 S	028 12 42	1311	16 16 35.70	012 52 00 *	- 40 06 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	16 17 33.00	015 04 00 *	26 54 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	16 17 55.50	014 37 00 *	14 24 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	16 18 28.50	015 02 00 *	27 06 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 04 37.80	146 21 08	33 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 04 51.90	122 57 08	34 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 05 08.90	107 21 08	34 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 05 24.90	092 03 08	30 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 05 40.90	080 33 08	26 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 05 55.90	072 57 08	22 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 06 11.90	112 12 00	19 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 46 42.00	286 18 00	04 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 46 55.50	290 18 00	05 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 47 04.50	292 30 00	05 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 47 12.00	295 54 00	06 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 47 22.50	300 06 00	06 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 47 32.50	303 36 00	07 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 47 42.00	307 24 00	07 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 47 49.50	310 42 00	07 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 47 56.00	313 24 00	07 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 48 05.50	316 54 00	07 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 48 14.00	320 42 00	08 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 48 21.50	323 24 00	08 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 48 36.00	329 12 00	07 46 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 48 46.50	333 12 00	07 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 48 55.50	336 18 00	07 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 49 03.50	339 12 00	07 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 49 12.50	342 18 00	06 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 49 19.00	344 18 00	06 36 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 49 25.00	010 10 00 *	50 00 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 49 27.00	346 54 00	06 18 00	
HORSBROD ENG	50 53 00 N	000 15 00		21 49 30.00	010 00 00 *	57 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		21 49 36.00	013 57 00 *	53 30 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 49 38.50	350 30 00	05 54 00	
URMSTON ENG	53 27 00 N	357 39 00		21 49 43.00	014 30 00 *	76 00 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 49 46.00	352 06 00	05 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 49 55.00	354 36 00	05 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 50 01.50	356 12 00	04 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 50 11.00	358 30 00	04 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 50 19.00	000 24 00	04 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 50 27.50	002 00 00	03 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 50 36.50	003 54 00	03 12 00	
HARROGTE ENG	53 59 00 N	358 26 00		21 50 38.00	001 09 00 *	60 30 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 50 46.00	005 36 00	02 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 50 54.00	006 48 00	02 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 51 03.00	008 30 00	01 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 51 11.50	010 00 00	01 30 00	
SEAFORD ENG	50 48 00 N	000 06 00		21 51 19.00	005 50 00 *	55 00 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 51 20.50	011 18 00	01 18 00	
COPNGN U OEN	55 41 12 N	012 34 40	14	21 51 31.04	010 12 00 *	53 36 00 *	
COPNGN B OEN	55 42 13 N	012 27 09	10	21 53 03.30	335 42 00	54 42 00	
HARROGTE ENG	53 59 00 N	358 26 00		22 39 14.00	011 06 00 *	45 00 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 10 44.00	010 32 00 *	08 54 00 *	

15 JULY 1958

WPALMB A FLA	26 39 30 N	279 55 20	5	01 08 39.00	270 00 00	89 00 00	
WASHGTN A OC	38 45 30 N	282 47 30	69	01 10 40.00	016 40 00 *	- 29 48 00 *	
WASHGTN A OC	38 45 30 N	282 47 30	69	01 11 01.00	017 18 12 *	- 21 43 00 *	
WASHGTN A OC	38 45 30 N	282 47 30	69	01 11 46.00	019 44 00 *	11 36 00 *	
APLINGTON VA	38 50 48 N	282 53 35	59	01 11 50.00	019 41 00 *	11 18 00 *	
WASHGTN A OC	38 45 30 N	282 47 30	69	01 12 56.00	021 50 00 *	39 00 00 *	
GRNSBRO A NC	36 04 38 N	280 07 57	265	01 20 30.00	020 40 00 *	70 00 00 *	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 21 14.80	252 12 00	23 06 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 21 22.20	258 24 00	25 18 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 21 48.00	280 00 00	34 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 21 56.00	290 00 00	35 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 22 01.60	302 00 00	36 48 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 22 03.50	300 00 00	36 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 22 05.10	307 00 00	37 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	01 22 06.20	308 54 00	37 18 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
15 JULY 1958 (CONT)							
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 09.40	314 54 00	37 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 10.00	310 00 00	36 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 13.70	318 54 00	36 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 16.00	321 18 00	35 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 34.60	345 00 00	30 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 38.60	347 42 00	29 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 41.40	349 24 00	28 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 44.60	350 36 00	27 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 46.00	350 00 00	26 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 53.10	357 48 00	25 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 58.80	001 12 00	22 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 23 09.20	005 12 00	18 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 23 35.50	013 00 00	13 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 23 57.40	017 06 00	11 12 00	
S ANT A TEX	29 27 48 N	261 30 56	256	02 52 48.50	270 00 00	14 40 00	
ALMGROO A NM	32 52 24 N	254 02 58	1335	02 52 52.00	016 39 00 *	- 29 55 00 *	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 53 20.80	316 00 00	12 00 00	
ALBUD A NM	35 05 03 N	253 21 24	1520	02 53 23.00	018 59 00 *	- 05 18 00 *	
DALLAS P TEX	32 51 10 N	263 14 29	172	02 53 40.80	011 00 00 *	06 50 00 *	
ALMGROO B NM	32 54 49 N	254 02 54	1300	02 53 47.00	019 24 00 *	20 05 00 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	02 54 29.00	011 24 00 *	15 40 00 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	02 55 04.00	010 32 00 *	56 50 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	02 55 39.00	002 35 00	24 52 00	
TULSA OKLA	36 04 00 N	264 03 00	204	02 55 49.00	011 12 00 *	21 00 00 *	
ST PL B MINN	44 58 30 N	266 45 59	285	02 57 13.40	000 00 00	90 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 37 49.00	271 13 12	09 21 32	
CHIN LAK CAL	35 39 25 N	242 20 13	701	04 37 56.50	270 00 00	08 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 38 19.00	286 06 36	11 31 26	
SACMTO E CAL	38 32 55 N	238 14 51	15	04 38 42.30	012 04 45 *	13 17 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 38 49.11	303 13 12	12 41 16	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 39 49.00	335 06 00	10 30 43	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 40 19.00	346 37 40	08 17 16	
EDW AF O CAL	34 56 43 N	242 04 58	785	04 40 49.00	355 05 31	06 04 22	
SPOKN A WASH	47 37 37 N	242 38 59	706	04 41 22.50	090 00 00	85 30 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	04 41 49.00	006 11 27	02 09 28	
MIYAZAKI J	31 55 23 N	131 25 24	8	11 30 44.00	011 07 00 *	02 00 00 *	
NAGASAKI 1 J	32 46 53 N	129 51 56	15	11 31 46.00	010 16 00 *	59 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	11 31 49.00	009 30 00 *	52 00 00 *	
YAMAGATA J	38 15 16 N	140 20 59	151	11 33 06.00	322 00 00	19 30 00	
HIROSHIMA J	34 22 08 N	132 28 10	3	11 33 16.00	000 00 00	12 30 00	
MUSASHINO J	35 42 58 N	139 34 35	75	11 33 29.00	315 00 00	09 30 00	
SAPPORO J	43 04 49 N	141 22 13	20	11 34 14.00	011 06 00 *	21 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 34 27.00	011 50 00 *	15 00 00 *	
AKITA J	39 41 42 N	140 07 02	6	11 34 27.00	011 57 00 *	17 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	11 35 00.00	009 25 00 *	51 00 00 *	
SSLVDR A BWI	24 07 23 N	285 32 53		12 58 36.00	235 39 00	54 03 36	
SSLVDR A BWI	24 07 23 N	285 32 53		12 59 06.00	349 56 24	58 03 00	
PRET B S AF	25 43 43 S	028 12 42	1311	16 26 24.00	010 49 00 *	- 01 42 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	16 26 34.20	011 02 00 *	03 00 00 *	
JOHNB C S AF	26 07 00 S	028 00 00	1615	16 26 53.70	011 30 00 *	15 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 26 02.50	226 12 00	45 00 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	18 26 36.00	018 46 48 *	38 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 26 39.50	073 00 00	46 48 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	18 26 58.00	019 46 12 *	48 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 27 23.00	045 48 00	21 48 00	
LAPLAT C ARG	34 54 26 S	302 05 30		21 35 00.00	013 00 36 *	11 06 24 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	21 38 56.00	307 17 31	12 42 54	
EDW AF D CAL	34 56 43 N	242 04 58	785	21 39 19.00	330 25 12	12 10 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	21 41 19.00	001 26 49	04 04 08	
EDW AF O CAL	34 56 43 N	242 04 58	785	21 42 19.00	009 48 14	00 39 39	
EDW AF O CAL	34 56 43 N	242 04 58	785	21 42 36.00	010 02 38	00 32 34	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 00 30.60	009 54 00	17 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 01 28.60	285 24 00	21 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 01 44.40	290 24 00	25 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 01 54.00	294 12 00	28 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 02 03.50	298 54 00	31 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 02 11.20	303 36 00	33 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 02 27.80	315 24 00	38 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 02 45.40	332 06 00	42 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 03 09.70	357 48 00	43 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
15 JULY 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 03 18.80	006 30 00	42 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 03 51.60	030 12 00	35 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 00.60	034 42 00	33 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 17.40	041 12 00	29 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 26.20	044 00 00	27 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 04 35.30	046 24 00	25 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 02.40	051 48 00	21 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 10.00	053 12 00	19 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 25.60	055 30 00	17 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 34.60	056 36 00	16 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 05 52.20	058 24 00	14 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 06 16.60	060 30 00	12 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 06 27.20	061 18 00	11 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 06 50.80	062 48 00	09 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 07 06.40	063 18 00	08 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 07 18.40	064 18 00	07 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 07 28.80	064 48 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 07 45.00	065 30 00	05 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 08 03.00	066 12 00	04 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 08 19.20	066 42 00	03 54 00	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 23 42.00	013 10 00 *	- 06 48 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 23 48.00	013 20 00 *	- 01 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 23 54.00	013 35 00 *	08 30 00 *	
16 JULY 1958							
MILLBROOK NY	41 51 30 N	286 22 33	243	00 21 44.00	012 08 00 *	56 30 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	01 17 17.00	270 00 00	17 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	01 18 24.83	009 05 00 *	53 59 00 *	
GRNSBRO A NC	36 04 38 N	280 07 57	265	01 19 43.00	014 15 00 *	19 00 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	01 19 58.00	090 00 00	44 45 00	
N CANTON A O	40 55 54 N	278 32 40	366	01 20 15.00	017 14 00 *	- 19 00 00 *	
BRYN ATHN PA	40 08 00 N	284 56 00	85	01 20 17.00	012 20 00 *	58 00 00 *	
FT BELVR VA	38 45 30 N	282 48 42	85	01 20 37.00	270 00 00	62 00 00	
BALTIMORE MO	39 24 28 N	283 24 35	144	01 20 42.00	270 00 00	61 30 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	01 20 44.00	130 07 00	42 18 00	
CLEVELND A O	41 29 46 N	278 12 16	220	01 20 54.00	113 00 00	25 00 00	
FT BELVR VA	38 45 30 N	282 48 42	85	01 21 02.00	000 00 00	49 00 00	
DOVER NJ	40 57 30 N	285 28 15	267	01 21 13.00	275 00 00	49 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 21 14.80	252 12 00	23 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 21 22.00	258 24 00	25 18 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	01 21 32.00	262 12 00	31 48 00	
PATERSON NJ	40 54 00 N	285 51 00	30	01 21 34.00	012 24 00 *	57 12 00 *	
MILLBROOK NY	41 51 30 N	286 22 33	243	01 21 44.00	012 38 00 *	56 30 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 21 48.00	028 00 00	34 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 21 56.00	290 00 00	35 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 01.60	302 00 00	36 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 03.50	300 00 00	36 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 05.10	307 00 00	37 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 06.20	308 54 00	37 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 09.40	314 54 00	37 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 10.00	310 00 00	36 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 13.70	318 54 00	36 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 16.00	320 00 00	35 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 23.50	330 00 00	33 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 34.00	340 00 00	31 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 34.60	345 00 00	30 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 38.60	347 42 00	29 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 41.40	349 24 00	28 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 44.60	350 36 00	27 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 46.00	350 00 00	26 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	01 22 48.50	357 30 00	27 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 53.10	357 48 00	25 00 00	
SCHNTDY A NY	42 53 32 N	285 58 57	235	01 22 54.60	000 05 00 *	58 20 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 22 58.80	001 12 00	22 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 23 09.20	005 12 00	18 18 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	01 23 24.60	012 24 00	17 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 23 35.50	013 00 00	13 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 23 57.40	017 06 00	11 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 29 47.60	332 33 00	43 41 00	
AMRLLO A TEX	35 11 30 N	258 03 28	1136	02 38 09.40	013 27 00 *	- 11 12 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
16 JULY 1958 (CONT)							
MANHTN M KAN	39 12 12 N	263 56 12	366	03 03 50.00	010 59 20 *	05 36 00 *	
MANHTN M KAN	39 12 12 N	263 56 12	366	03 04 06.00	010 46 06 *	13 42 00 *	
MANHTN M KAN	39 12 12 N	263 56 12	366	03 04 24.00	010 36 24 *	18 42 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	03 05 32.00	352 00 00	08 00 00	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 06 30.00	004 30 00 *	62 00 00 *	
MLWKEE B WIS	42 59 25 N	272 01 15		03 06 35.00	314 00 00	10 30 00	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 06 38.00	004 07 28 *	60 50 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 06 47.00	003 48 17 *	59 50 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 07 05.00	003 21 05 *	57 50 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 07 13.00	003 12 43 *	56 50 00 *	
MLWKEE B WIS	42 59 25 N	272 01 15		03 07 18.00	333 00 00	13 00 00	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 07 21.00	003 04 21 *	55 45 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 07 30.00	002 56 00 *	54 45 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	03 07 36.80	009 29 30	05 42 00	
SACMTO A CAL	38 38 25 N	238 43 24	180	04 47 56.90	010 13 56 *	23 42 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 49 39.40	012 20 30 *	57 15 00 *	
ELTHRA A BWI	25 16 03 N	283 41 12	38	05 47 35.23	228 15 36	81 53 06	
WASHGTON A OC	38 45 30 N	282 47 30	69	08 36 14.00	005 48 00 *	38 48 00 *	
WASHGTON A DC	38 45 30 N	282 47 30	69	08 36 36.00	005 14 00 *	29 54 00 *	
WASHGTON A DC	38 45 30 N	282 47 30	69	08 38 24.00	004 37 00 *	15 30 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 24 45.00	011 46 00 *	13 00 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	16 23 15.80	015 08 00 *	13 12 00 *	
ATHNS PLE GR	38 02 50 N	023 51 45	509	18 34 28.40	233 36 00	22 18 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	18 35 09.90	297 42 00	34 48 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	18 35 47.00	231 00 00	70 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 36 00.40	354 42 00	23 06 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	18 37 04.90	018 48 00	11 54 00	
MADRID SP	40 24 30 N	356 18 43	655	20 18 20.00	013 20 00 *	07 30 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 20 07.00	340 24 00	47 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 20 20.00	355 00 00	40 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 20 55.50	015 42 00	23 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 04.50	018 12 00	21 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 13.50	020 18 00	19 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 23.00	022 54 00	15 46 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 34.00	024 00 00	14 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 45.00	025 24 00	12 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 55.00	026 06 00	11 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 05.00	027 00 00	10 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 12.00	027 30 00	09 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 22.50	027 42 00	08 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 30.00	028 12 00	07 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 38.00	028 30 00	06 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 48.00	029 12 00	05 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 55.00	029 18 00	05 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 23 03.50	029 36 00	04 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 23 12.00	029 48 00	03 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 23 22.50	030 00 00	03 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 23 31.00	030 06 00	02 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 23 40.50	030 18 00	02 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 23 48.50	030 24 00	01 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 24 06.50	030 54 00	00 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 24 15.00	031 00 00	00 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 24 22.50	031 06 00	00 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 24 31.50	031 12 00	00 06 00	
LAPLAT C ARG	34 54 26 S	302 05 30		21 43 04.00	009 38 00 *	14 05 42 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 12 46.50	030 48 00	34 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 13 04.10	038 24 00	31 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 13 13.00	042 24 00	29 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 13 21.60	044 54 00	27 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 13 30.40	047 36 00	26 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 13 39.00	049 36 00	24 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 13 48.30	051 36 00	23 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 14 05.30	055 00 00	20 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 14 13.90	056 24 00	19 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 14 22.50	057 54 00	18 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 14 31.40	058 54 00	17 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 14 40.10	060 06 00	16 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 14 57.10	061 54 00	14 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 15 11.30	063 18 00	13 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 15 28.90	064 42 00	11 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
16 JULY 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 15 49.90	066 18 00	10 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 16 06.50	067 18 00	08 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 16 24.30	068 18 00	07 36 00	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	22 24 26.30	021 11 48 *	30 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 31 00.00	009 50 00 *	- 02 48 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 32 00.00	010 10 00 *	09 36 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 33 00.00	010 22 00 *	18 30 00 *	
GR TRK A BWI	21 25 59 N	288 51 16		23 40 45.00	083 49 48	32 13 12	
GR TRK A BWI	21 25 59 N	288 51 16		23 40 50.00	077 54 54	30 18 10	
GR TRK A BWI	21 25 59 N	288 51 16		23 40 55.00	073 00 54	20 24 00	
GR TRK A BWI	21 25 59 N	288 51 16		23 41 00.00	068 50 06	26 45 28	
GR TRK A BWI	21 25 59 N	288 51 16		23 41 05.00	065 08 06	24 55 30	
GR TRK A BWI	21 25 59 N	288 51 16		23 41 10.00	062 00 00	23 22 30	
GR TRK A BWI	21 25 59 N	288 51 16		23 41 15.00	059 01 30	21 44 42	
GR TRK A BWI	21 25 59 N	288 51 16		23 41 20.00	052 31 12	20 21 18	
GR TRK A BWI	21 25 59 N	288 51 16		23 41 25.00	054 16 30	18 51 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	23 47 25.00	070 18 00	01 12 00	
THURSO SCOT	58 36 00 N	356 30 00		23 54 11.00	011 08 00 *	44 00 00 *	1679
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 59 09.00	044 42 00	50 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 59 18.30	050 12 00	48 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 59 30.70	058 48 00	45 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 59 36.60	061 18 00	43 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 59 53.50	068 42 00	39 36 00	
17 JULY 1958							
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 00 11.40	074 06 00	35 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 00 18.40	076 24 00	33 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 00 26.40	078 18 00	32 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 00 35.30	080 12 00	30 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 00 44.80	082 06 00	28 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 01 01.50	084 42 00	26 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 01 20.30	087 06 00	23 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 01 36.30	088 30 00	21 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 01 53.50	090 12 00	19 12 00	
N ORLS AO LA	29 57 30 N	269 58 34	2	01 26 21.00	090 00 00	87 00 00	
ARLINGTON VA	38 50 48 N	282 53 35	59	01 28 43.70	270 00 00	16 30 00	
N CANTON A O	40 55 54 N	278 32 40	366	01 29 09.00	013 35 00 *	16 05 00 *	
WASHGTON A OC	38 45 30 N	282 47 30	69	01 29 19.00	011 10 00 *	22 00 00 *	
WASHGTON A OC	38 45 30 N	282 47 30	69	01 30 15.00	006 00 00 *	65 00 00 *	
PATERSON NJ	40 54 00 N	285 51 00	30	01 30 22.00	009 15 00 *	47 00 00 *	
MILLBROOK NY	41 51 30 N	286 22 33	243	01 30 42.00	010 24 00 *	43 55 00 *	
ST COLL PA	40 44 01 N	282 06 33	393	01 30 49.00	000 00 00	24 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	01 31 00.00	314 48 00	18 06 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	01 32 22.00	357 24 00	11 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 46 00.60	050 18 00	12 46 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 46 25.90	055 07 00	11 58 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 46 59.40	060 44 00	10 46 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 47 26.40	064 43 00	09 41 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 49 45.50	065 36 00	00 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 50 21.00	069 54 00	- 00 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 50 38.00	072 06 00	- 00 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 29 15.00	279 25 00	39 59 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 30 14.00	001 29 00	33 17 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 30 30.60	010 27 00	27 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 30 56.90	019 23 00	19 51 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 31 29.20	025 29 00	14 06 00	
ALBUQ S NM	35 03 18 N	253 23 30	1618	03 11 10.00	270 00 00	18 00 00	
TEMPE ARIZ	33 25 00 N	248 06 00	347	03 11 21.00	000 00 00	30 00 00	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	03 12 00.00	010 22 00 *	24 06 00 *	
ALBUQ D NM	35 03 00 N	253 23 00	1600	03 12 29.00	010 22 30 *	08 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 30 17.10	008 30 00	21 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 30 26.00	010 35 00	22 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 30 35.50	012 30 00	23 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 30 43.50	014 42 00	24 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 30 51.50	016 54 00	25 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 00.00	019 06 00	26 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 08.00	021 42 00	26 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 17.00	024 18 00	27 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 26.00	026 54 00	28 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 33.50	029 18 00	28 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	T'IME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1T JULY 1958 (CONT)							
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 40.50	031 36 00	29 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 51.00	035 00 00	29 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 31 57.00	037 12 00	30 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 32 08.50	040 54 00	30 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 32 16.50	043 36 00	31 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 32 24.00	046 12 00	31 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 32 34.00	049 36 00	31 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 32 41.00	051 48 00	31 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 32 48.50	054 54 00	31 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 32 59.00	058 24 00	31 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 33 06.50	060 30 00	31 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 33 15.50	063 06 00	31 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 33 23.50	065 54 00	30 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 33 33.00	068 42 00	30 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 33 41.00	071 00 00	29 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 33 50.50	073 36 00	29 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 33 59.50	076 00 00	29 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 34 07.00	077 54 00	28 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 34 15.00	079 06 00	27 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 34 25.50	082 12 00	27 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 34 33.50	083 54 00	26 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 34 39.50	085 06 00	26 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 34 51.50	087 30 00	25 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 00.00	089 18 00	24 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 08.00	090 42 00	24 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 15.50	091 54 00	23 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 24.50	093 30 00	23 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 35.50	095 18 00	22 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 44.50	095 48 00	21 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 51.00	097 30 00	21 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 35 59.00	098 36 00	20 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 36 07.00	099 42 00	20 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 36 15.50	100 48 00	19 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 36 27.00	102 06 00	18 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 36 34.50	102 54 00	18 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 36 44.50	103 54 00	17 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 36 52.50	104 48 00	16 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 02.00	105 36 00	15 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 07.50	106 18 00	15 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 19.50	107 18 00	14 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 26.00	108 00 00	14 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 35.50	108 42 00	14 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 43.00	109 12 00	13 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 52.00	109 36 00	12 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 19.50	112 00 00	11 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 25.00	112 18 00	11 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 36.00	113 00 00	10 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 44.00	113 24 00	10 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 53.00	114 06 00	09 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 02.00	114 36 00	09 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 11.00	115 12 00	08 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 20.50	115 42 00	08 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 28.00	116 18 00	07 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 38.50	116 36 00	07 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 45.50	116 54 00	07 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 54.00	117 24 00	06 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 04.50	117 54 00	06 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 12.50	118 06 00	05 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 22.00	118 36 00	05 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 30.50	119 00 00	04 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 41.50	119 18 00	04 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 49.00	119 42 00	04 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 04.50	120 24 00	03 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 14.50	120 48 00	02 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 23.00	121 00 00	02 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 31.00	121 18 00	02 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 40.50	121 36 00	01 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 48.00	121 54 00	01 24 00	
WLNTCK A CAL	37 55 30 N	237 55 30	10	04 57 32.00	008 13 00 *	44 30 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 59 35.00	016 06 06 *	61 30 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 JULY 1958 (CONT)							
OK CY A OKLA	35 33 50 N	262 29 20	360	10 28 24.00	045 00 00	31 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 43 25.60	305 48 00	13 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 44 24.60	334 12 00	12 06 00	
KASHIWABRA J	34 30 24 N	135 48 15	66	19 08 00.00	004 58 00 *	47 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	19 08 10.00	004 55 00 *	44 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 27 12.50	267 06 00	14 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 27 23.00	272 18 00	15 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 27 30.00	276 06 00	16 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 27 39.00	281 36 00	18 02 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 27 46.50	286 30 00	19 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 27 55.50	293 12 00	19 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 28 03.00	298 54 00	20 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 28 12.50	305 54 00	21 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 28 22.00	314 00 00	21 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 28 29.00	320 18 00	21 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 28 38.00	326 48 00	20 36 00	
AGEN FRANCE	44 10 36 N	000 35 42		20 28 40.00	314 12 00	24 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 28 45.50	331 54 00	19 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 28 55.00	338 24 00	19 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 29 03.50	343 30 00	17 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 29 12.50	347 54 00	16 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 29 19.00	351 00 00	16 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 29 27.00	354 30 00	14 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 29 36.00	357 54 00	13 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 29 44.00	000 30 00	12 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 29 52.50	003 12 00	11 42 00	
AGEN FRANCE	44 10 36 N	000 35 42		20 30 00.00	003 00 00	12 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 30 02.00	007 00 00	10 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 30 11.00	008 00 00	10 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 30 18.50	009 24 00	09 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 30 26.00	011 00 00	08 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 30 35.00	012 36 00	07 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 30 44.00	014 00 00	06 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 30 53.00	015 24 00	06 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 31 02.50	016 48 00	05 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 31 11.50	017 54 00	04 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 31 21.00	018 54 00	04 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 31 34.50	020 00 00	03 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 31 39.00	020 36 00	03 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 31 46.00	021 24 00	02 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 31 54.50	021 42 00	02 06 00	
PIC MIDI FR	42 56 12 N	000 06 32	2862	20 32 05.00	022 54 00	01 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 32 14.50	023 30 00	01 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 32 23.00	024 00 00	00 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 32 31.50	024 48 00	00 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 32 39.00	025 06 00	- 00 12 00	
18 JULY 1958							
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 37 45.60	281 36 00	04 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 37 49.00	284 48 00	04 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 37 50.30	285 36 00	04 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 37 59.30	288 12 00	07 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 38 09.30	292 18 00	07 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 38 12.00	295 18 00	07 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 38 42.90	306 18 00	07 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 38 52.40	307 06 00	07 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 39 30.50	322 42 00	09 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 39 39.40	326 42 00	09 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 39 47.80	329 42 00	08 42 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 05.20	328 54 00	10 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 13.60	341 30 00	08 42 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 14.50	331 54 00	10 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 21.50	343 30 00	08 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 30.80	345 30 00	08 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 39.60	347 30 00	07 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 40.50	348 18 00	05 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 48.40	351 00 00	05 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	01 40 51.30	351 30 00	05 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	01 52 52.60	032 36 00	18 44 00	
MEUOON FR	48 48 18 N	002 13 52	162	01 54 12.00	052 53 00	17 25 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
18 JULY 1958 (CONT)							
MEUDON FR	48 48 18 N	002 13 52	162	01 54 54.90	061 38 00	15 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 55 21.60	066 23 00	14 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 55 46.20	070 23 00	13 33 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 56 04.00	058 00 00	07 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 56 04.50	073 05 00	12 35 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 56 18.00	060 24 00	06 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 56 27.50	061 36 00	06 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 56 30.40	076 28 00	11 20 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 56 36.50	062 42 00	06 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 56 45.50	063 48 00	06 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 56 47.20	078 33 00	10 27 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 56 53.50	065 00 00	05 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 57 02.00	065 54 00	05 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 57 05.50	080 33 00	09 47 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 57 17.50	067 06 00	05 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 57 21.00	068 06 00	05 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 57 21.60	082 14 00	08 45 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 57 29.50	069 06 00	05 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 57 40.50	070 18 00	04 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 57 48.00	070 48 00	04 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 57 56.00	071 48 00	04 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 58 04.50	086 06 00	06 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 58 05.00	072 42 00	03 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 58 16.00	073 42 00	03 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 58 24.00	074 30 00	03 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 58 37.50	075 54 00	02 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 58 48.00	076 36 00	02 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 58 56.00	077 18 00	02 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 58 56.90	090 13 00	04 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 59 04.50	078 12 00	02 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 59 21.50	079 36 00	01 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 59 31.00	080 30 00	01 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 59 39.50	080 48 00	01 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	01 59 57.00	082 18 00	00 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 00 16.00	083 30 00	- 00 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 00 24.00	084 12 00	- 00 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 00 35.50	084 24 00	- 00 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 27.00	348 00 00	17 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 37.50	349 36 00	18 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 44.50	350 30 00	20 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 37 53.50	351 48 00	21 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 00.00	353 00 00	22 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 09.50	354 18 00	25 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 17.50	356 00 00	25 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 26.50	357 48 00	26 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 37.00	359 48 00	28 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 46.00	002 06 00	29 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 38 52.00	003 18 00	30 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 01.00	005 48 00	31 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 09.00	007 54 00	33 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 20.00	011 12 00	36 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 30.00	014 36 00	36 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 38.00	017 30 00	37 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 45.50	020 06 00	38 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 39 53.00	023 06 00	39 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 02.50	027 00 00	41 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 11.00	030 54 00	42 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 27.00	035 36 00	43 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 35.50	042 30 00	44 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 45.50	047 00 00	44 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 40 52.50	050 18 00	44 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 02.00	055 06 00	44 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 10.00	059 06 00	44 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 18.00	061 30 00	44 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 26.00	066 24 00	44 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 36.50	070 48 00	43 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 44.00	074 00 00	42 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 41 52.50	077 30 00	41 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 42 01.50	081 42 00	41 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	03 42 08.50	084 06 00	40 24 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION	SLANT RANGE IN KM
18 JULY 1958 (CONT)							
PIC MID I FR	42 56 12 N	000 08 32	2862	03 42 18.00	087 18 00	39 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 42 26.50	089 54 00	38 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 42 35.50	092 24 00	37 18 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 42 45.00	095 00 00	36 18 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 42 55.50	097 30 00	35 06 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 43 02.50	097 54 00	34 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 43 12.50	100 06 00	33 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 43 29.50	103 18 00	31 06 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 43 37.50	104 36 00	30 18 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 43 46.50	106 18 00	29 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 44 03.00	108 30 00	27 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 44 11.50	109 48 00	26 30 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 44 19.00	110 30 00	25 36 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 44 28.00	111 42 00	24 42 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 44 36.50	112 36 00	24 00 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 44 47.00	113 36 00	23 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 44 56.50	114 36 00	22 18 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 45 06.50	115 30 00	21 18 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 45 14.50	116 12 00	20 30 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 45 22.50	116 48 00	19 54 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 45 29.00	117 24 00	19 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 45 37.50	118 00 00	18 42 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 45 44.50	118 48 00	18 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 45 53.00	119 12 00	17 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 46 01.00	119 48 00	17 06 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 46 10.00	120 18 00	16 18 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 46 20.00	121 00 00	15 30 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 46 30.50	121 30 00	14 42 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 46 40.00	122 06 00	14 00 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 46 56.50	122 54 00	13 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 47 05.00	123 24 00	12 30 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 47 13.50	123 42 00	12 00 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 47 23.50	124 18 00	11 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 47 31.50	124 36 00	10 54 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 47 44.00	124 48 00	10 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 47 49.00	125 24 00	10 00 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 47 58.00	125 42 00	09 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 48 05.00	126 00 00	09 06 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 48 17.00	126 18 00	08 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 48 25.00	126 36 00	07 54 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 48 35.00	127 00 00	07 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 48 41.00	127 06 00	06 54 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 48 50.50	127 30 00	06 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 49 00.50	127 54 00	06 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 49 17.50	128 18 00	05 18 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 49 27.50	128 54 00	04 36 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 49 42.50	129 06 00	04 00 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 49 53.00	129 12 00	03 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 50 01.50	129 42 00	03 06 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 50 18.00	130 00 00	02 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	03 50 27.50	130 12 00	01 54 00	
HGSHMTSYMA J	36 02 22 N	199 23 54	31	10 12 13.00	012 11 00 *	08 00 00 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	10 34 05.00	000 00 00	25 30 00	
OK CY A OKLA	35 33 50 N	262 29 20	360	10 36 36.00	045 00 00	47 00 00	
WICHITA KAN	37 41 44 N	262 45 19	413	10 38 00.20	095 30 00	45 42 00	
FT WTH C TEX	32 42 15 N	262 37 30	204	10 40 23.00	003 48 00 *	23 50 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	13 18 54.50	270 00 00	82 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	19 15 00.00	004 08 00 *	40 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	19 15 33.00	090 00 00	47 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	19 16 09.00	003 54 00 *	24 00 00 *	
COPNGN U DEN	55 41 12 N	012 34 40	14	20 38 33.30	092 48 00	26 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	20 38 34.90	000 25 00	17 52 00	
MEUOON FR	48 48 18 N	002 13 52	162	20 39 19.70	014 08 00	12 24 00	
MEUOON FR	48 48 18 N	002 13 52	162	20 39 44.20	018 59 00	09 58 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 56.10	345 15 06	19 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 40 23.10	358 09 06	17 48 00	
CHELMSFD ENG	51 43 00 N	000 30 00		22 26 17.00	005 10 00 *	47 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		22 26 34.04	007 56 00 *	51 36 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		22 27 27.04	005 56 00 *	51 18 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
19 JULY 1958							
MEUDON FR	48 48 18 N	002 13 52	162	02 00 46.40	036 30 00	24 49 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 01 04.40	042 07 00	24 28 00	
ORFONESS ENG	52 06 00 N	001 36 00		02 01 13.00	057 12 00	25 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 01 28.80	049 30 00	24 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		02 01 40.00	063 06 00	27 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 01 47.60	054 47 00	23 26 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 02 02.90	058 50 00	22 48 00	
ORFONESS ENG	52 06 00 N	001 36 00		02 02 03.00	069 30 00	24 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 02 21.60	063 24 00	21 55 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 02 38.20	067 11 00	21 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 02 56.50	070 46 00	20 01 00	
ORFONESS ENG	52 06 00 N	001 36 00		02 03 04.00	080 12 00	21 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 03 13.20	073 58 00	19 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 03 46.30	079 30 00	16 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 04 04.80	082 11 00	15 50 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 04 23.10	084 34 00	14 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 04 41.00	086 46 00	13 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 04 56.80	088 30 00	12 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 05 14.30	090 18 00	11 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 05 32.00	091 41 00	10 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 05 48.90	093 24 00	09 50 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 06 15.40	095 28 00	08 26 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 06 49.70	097 52 00	06 38 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 07 25.00	100 05 00	05 03 00	
PRET B S AF	25 43 43 S	028 12 42	1311	04 11 08.20	003 25 06 *	09 48 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	04 11 09.00	003 26 00 *	11 30 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	04 11 43.81	003 32 00 *	04 30 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	04 13 14.30	004 09 36 *	- 11 32 00 *	
JOHNB C S AF	26 07 00 S	028 00 00	1615	04 15 03.00	005 00 00 *	- 28 00 00 *	
JOHNB E S AF	26 08 00 S	028 01 00	1672	04 16 04.50	005 32 30 *	- 34 06 00 *	
UNION JOHNSB	26 10 55 S	028 04 30	1806	04 16 07.00	005 35 00 *	- 34 48 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	09 00 02.00	088 00 00	40 00 00	
SPOKN A WASH	47 37 37 N	242 38 59	706	10 39 04.00	045 00 00	38 30 00	
SACHTO E CAL	38 32 55 N	238 14 51	15	10 41 58.00	004 46 27 *	32 28 00 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	10 44 29.00	045 00 00	66 00 00	
OK CY A OKLA	35 33 50 N	262 29 20	360	10 45 22.00	090 00 00	64 00 00	
FT WTH C TEX	32 42 15 N	262 37 30	204	10 46 19.00	000 30 30 *	30 25 00 *	
BILOXI MISS	30 23 27 N	271 08 28	7	10 47 06.00	270 00 00	85 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	19 21 35.00	002 55 00 *	56 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	19 22 31.40	002 44 00 *	37 48 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	19 22 58.00	090 00 00	43 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 46 31.10	324 54 18	15 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 46 56.70	336 48 18	16 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 47 14.20	344 24 18	15 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 47 55.20	000 54 18	14 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 48 15.20	008 00 18	12 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 48 33.00	004 20 00 *	48 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 48 49.20	017 06 18	10 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 49 18.20	003 32 00 *	42 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 49 36.20	003 03 00 *	41 00 00 *	
20 JULY 1958							
NANCY FRANCE	48 41 54 N	006 13 30		02 08 57.00	047 12 00	39 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 10 40.60	085 07 00	22 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 11 15.20	090 37 00	20 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 11 39.40	093 45 00	18 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 11 58.20	095 59 00	16 58 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 12 24.80	098 33 00	15 09 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 12 51.00	091 01 00	13 29 00	
FT WTH A TEX	32 42 27 N	262 38 14	182	05 23 06.00	000 42 00 *	34 00 00 *	
MLWKEE B WIS	42 59 25 N	272 01 15		09 02 24.60	010 30 00 *	79 00 00 *	
MLWKEE A WIS	42 58 07 N	271 51 35	294	09 04 45.00	003 05 00 *	48 00 00 *	
ROANOKE VA	37 19 00 N	280 04 00	343	09 05 15.00	023 05 10 *	06 00 00 *	
ST COLL PA	40 44 01 N	282 06 33	393	09 05 38.00	000 00 00	69 00 00	
FT BELVR VA	38 45 30 N	282 48 42	85	09 05 53.00	000 00 00	63 00 00	
N CANTON A O	40 55 54 N	278 32 40	366	09 07 03.30	002 04 54 *	23 16 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	09 08 08.00	090 00 00	45 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 11 38.00	090 00 00	35 00 00	
S ANT A TEX	29 27 48 N	261 30 56	256	10 31 36.00	090 00 00	51 30 00	
SPOKN A WASH	47 37 37 N	242 38 59	706	10 46 11.00	045 00 00	54 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SUN RAN IN KI
20 JULY 1958 (CONT)							
OENVR A COLO	39 44 52 N	255 03 24	1625	10 47 00.00	341 36 00	31 30 00	
ALMGROO A NM	32 52 24 N	254 02 58	1335	10 49 49.00	003 53 00 *	65 50 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	10 50 00.00	003 02 00 *	50 18 00 *	
FT WTH N TEX	32 44 40 N	262 37 54	186	10 52 14.00	024 12 00 *	51 00 00 *	
FT WTH C TEX	32 42 15 N	262 37 30	204	10 52 36.00	000 42 00 *	34 00 00 *	
S ANT A TEX	29 27 48 N	261 30 56	256	10 53 48.00	090 00 00	69 30 00	
FUKUOKA 1 J	33 37 25 N	130 25 40	16	15 32 02.00	135 00 00	43 00 00	
FUKUOKA 1 J	33 37 25 N	130 25 40	16	19 22 58.00	090 00 00	43 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	19 27 58.00	090 01 00 *	57 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	19 30 38.00	091 54 00 *	09 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	19 32 02.00	135 00 00	43 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 41 46.30	346 54 00	46 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 42 04.30	002 00 00	47 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 42 19.30	015 36 00	48 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 42 30.50	025 54 00	47 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 42 46.20	038 06 00	45 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 42 56.50	044 48 00	43 48 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 43 13.30	054 12 00	40 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 43 22.50	058 18 00	38 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 43 31.60	062 06 00	36 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 43 48.20	067 18 00	33 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 44 20.70	074 54 00	27 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 44 40.60	078 12 00	24 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 45 15.70	082 30 00	19 48 00	
21 JULY 1958							
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	00 41 17.87	002 15 00 *	07 33 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	00 41 33.00	002 17 04 *	09 37 30 *	
AGEN FRANCE	44 10 36 N	000 35 42		02 11 45.00	353 06 00	16 18 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	02 18 08.40	340 36 00	25 54 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	02 19 01.40	350 18 00	62 48 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	02 21 17.40	133 12 00	62 18 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	02 22 10.40	139 48 00	41 54 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	02 23 03.40	142 18 00	37 54 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	02 24 12.40	145 24 00	28 48 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	02 25 24.40	146 00 00	21 00 00	
S FERNNOO SP	36 27 42 N	353 47 42	30	04 03 44.33	002 07 54 *	37 28 00 *	
MLWKEE B WIS	42 59 25 N	272 01 15		07 26 50.00	003 53 00 *	24 00 00 *	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 27 09.00	058 54 00	35 54 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 27 13.20	061 36 00	35 36 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 27 28.20	066 00 00	35 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 27 35.00	068 24 00	34 48 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 27 43.00	068 42 00	34 06 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 27 47.00	071 06 00	33 36 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 27 59.00	073 30 00	33 06 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 28 05.00	075 48 00	32 18 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 28 07.00	077 36 00	32 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 28 45.00	085 48 00	30 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 28 50.60	089 00 00	28 42 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 29 00.30	071 18 00	27 42 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 29 26.00	094 00 00	26 42 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 30 10.00	099 48 00	23 48 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 30 26.60	101 12 00	23 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 31 11.60	105 30 00	20 30 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 31 28.00	107 06 00	19 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 31 51.00	109 42 00	17 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 09 18.00	320 00 00	38 42 00	
MLWKEE B WIS	42 59 25 N	272 01 15		09 09 34.00	022 40 00 *	82 30 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 11 00.00	090 00 00	35 00 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	09 11 19.30	001 45 09 *	50 16 30 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	09 11 49.00	095 54 00	57 40 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	09 12 43.00	001 55 00 *	15 00 00 *	
GR TRK A BWI	21 25 59 N	288 51 16		09 14 30.00	341 01 48	25 25 12	
GR TRK A BWI	21 25 59 N	288 51 16		09 15 00.00	341 45 36	29 43 12	
GR TRK A BWI	21 25 59 N	288 51 16		09 15 30.00	342 28 48	34 52 12	
GR TRK A BWI	21 25 59 N	288 51 16		09 16 00.00	343 49 12	40 33 00	
WPALMB-A FLA	26 39 30 N	279 55 20	5	09 16 27.75	002 34 12 *	12 18 00 *	
GR TRK A BWI	21 25 59 N	288 51 16	5	09 16 30.00	345 19 12	46 49 12	
WPALMB-A FLA	26 39 30 N	279 55 20	5	09 16 43.75	002 35 42 *	27 49 00 *	
WPALMB-A FLA	26 39 30 N	279 55 20	5	09 16 59.75	002 37 00 *	23 31 00 *	
GR TRK A BWI	21 25 59 N	288 51 16		09 17 00.00	347 39 36	54 28 12	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
21 JULY 1958 (CONT)							
WPALMB A FLA	26 39 30 N	279 55 20	5	09 17 20.00	090 00 00	61 00 00	
GR TRK A BWI	21 25 59 N	288 51 16		09 17 30.00	351 31 12	62 18 00	
GR TRK A BWI	21 25 59 N	288 51 16		09 18 00.00	359 21 36	70 43 12	
GR TRK A BWI	21 25 59 N	288 51 16		09 18 30.00	018 07 12	79 03 00	
GR TRK A BWI	21 25 59 N	288 51 16		09 19 00.00	072 22 48	82 11 24	
GR TRK A BWI	21 25 59 N	288 51 16		09 19 30.00	117 37 12	76 55 12	
GR TRK A BWI	21 25 59 N	288 51 16		09 20 00.00	132 33 00	69 36 36	
GR TRK A BWI	21 25 59 N	288 51 16		09 20 30.00	140 14 24	60 36 36	
GR TRK A BWI	21 25 59 N	288 51 16		09 21 00.00	144 00 00	55 23 24	
GR TRK A BWI	21 25 59 N	288 51 16		09 21 30.00	149 37 12	49 38 24	
GR TRK A BWI	21 25 59 N	288 51 16		09 22 00.00	148 14 24	44 26 24	
GR TRK A BWI	21 25 59 N	288 51 16		09 22 30.00	149 39 36	39 45 36	
GR TRK A BWI	21 25 59 N	288 51 16		09 24 00.00	152 14 24	28 48 00	
SPOKN A WASH	47 37 37 N	242 38 59	706	10 52 39.00	045 00 00	70 30 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	10 54 25.00	321 00 00	50 00 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	10 54 47.00	018 00 00 *	80 34 00 *	
ALBUO-GS,NM	35 06 22 N	253 23 14	1565	10 57 00.00	000 40 00 *	56 00 00 *	
ALBUO S,NM	35 03 18 N	253 23 30	1618	10 57 24.00	090 00 00	69 00 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	10 58 05.00	001 39 00 *	35 55 00 *	
FT WTH A TEX	32 42 27 N	262 38 14	182	10 58 26.50	022 37 00 *	30 00 00 *	
ALBUO-GS,NM	35 06 22 N	253 23 14	1565	10 59 00.00	001 47 00 *	10 36 00 *	
S ANT B TEX	29 27 34 N	261 29 16		10 59 34.50	270 00 00	83 00 00	
S ANT A TEX	29 27 48 N	261 30 56	256	10 59 34.50	270 00 00	82 00 00	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	11 04 16.00	001 50 00 *	10 00 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 26 44.00	002 41 30 *	50 38 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 26 52.00	002 42 12 *	48 33 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 27 00.00	002 43 24 *	46 28 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 34 37.00	003 09 00 *	50 35 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 35 00.00	003 09 00 *	45 07 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 35 09.00	003 09 00 *	43 17 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	19 30 51.00	017 28 00 *	58 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	19 34 47.00	270 00 00	76 00 00	
KAGOSHIMA J	31 31 34 N	130 31 47	13	19 35 08.00	023 36 00 *	29 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	19 35 56.00	000 05 00 *	15 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	19 36 11.00	000 01 00 *	09 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 05.90	007 30 00	41 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 13.70	013 30 00	39 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 22.30	019 42 00	38 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 30.50	025 18 00	37 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 37.90	029 18 00	35 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 47.30	033 54 00	33 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 56.70	038 24 00	31 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 03 05.60	041 54 00	30 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 03 13.50	044 30 00	28 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 03 22.70	047 12 00	27 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 03 46.70	053 00 00	23 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 03 56.10	054 00 00	21 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 04 04.90	056 00 00	20 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 04 13.80	057 00 00	19 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 04 23.80	059 00 00	18 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 04 50.50	062 24 00	15 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 05 06.00	063 06 00	14 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 05 16.50	064 30 00	12 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 05 24.90	065 12 00	12 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 05 34.20	065 48 00	11 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 05 43.30	066 30 00	10 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 05 51.20	067 00 00	10 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 05 59.00	067 30 00	09 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 06 08.60	068 06 00	08 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 06 16.70	068 30 00	08 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 06 27.00	069 00 00	07 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 06 34.80	069 24 00	07 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 06 44.50	069 54 00	06 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 06 52.20	070 06 00	06 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 07 00.90	070 30 00	05 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 07 09.60	070 54 00	05 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 07 18.50	071 18 00	04 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 07 27.50	071 36 00	04 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 07 36.30	071 54 00	03 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 07 44.50	072 12 00	03 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
21 JULY 1958 (CONT)							
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 18 54.30	046 30 00	50 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 47 14.10	324 48 00	36 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 47 30.70	333 24 00	41 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 47 47.30	343 06 00	47 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 47 56.30	350 06 00	49 48 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 48 05.10	358 36 00	52 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 48 13.30	006 30 00	53 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 48 37.30	031 54 00	53 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 48 46.50	040 06 00	52 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 48 54.30	046 30 00	50 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 01.90	052 12 00	48 54 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 08.70	057 00 00	47 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 14.50	060 00 00	46 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 21.30	063 24 00	44 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 29.10	066 48 00	42 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 35.70	069 42 00	40 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 47.10	073 42 00	37 54 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 49 55.10	076 12 00	36 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 50 02.30	077 42 00	34 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 50 12.10	080 00 00	32 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 50 22.10	082 00 00	30 42 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 50 30.10	083 24 00	29 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 50 37.20	084 30 00	27 54 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 50 46.70	085 54 00	26 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 50 56.90	087 12 00	24 54 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 51 05.50	088 06 00	23 42 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 51 14.10	089 00 00	22 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 51 22.90	089 54 00	21 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 51 31.10	090 36 00	20 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 51 39.70	091 18 00	19 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 51 48.70	092 00 00	18 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 51 57.70	092 30 00	17 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 52 06.50	093 06 00	16 42 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 52 14.70	093 42 00	16 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 52 23.90	094 12 00	15 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 52 32.30	094 36 00	14 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 52 41.10	095 06 00	13 42 00	
22 JULY 1958							
MEUOON FR	48 48 18 N	002 13 52	162	02 20 37.00	038 54 00	55 38 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 21 01.70	057 46 00	55 43 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 21 26.90	074 47 00	53 08 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 21 46.00	084 55 00	50 02 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 22 02.60	091 49 00	47 03 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 22 47.10	104 21 00	38 55 00	
S FERNDO SP	36 27 42 N	353 47 42	30	04 08 21.85	023 15 12 *	57 58 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	07 30 08.00	005 49 00 *	63 06 00 *	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 31 12.20	012 42 00	40 24 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 31 14.40	014 42 00	41 24 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 31 26.40	018 12 00	42 54 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 31 54.30	033 48 00	45 42 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 32 02.20	036 48 00	46 24 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 32 03.00	037 00 00	46 06 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 32 09.40	039 54 00	46 18 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 32 23.60	051 42 00	47 12 00	
PT RICO A WI	18 10 31 N	292 54 42	408	07 32 44.16	119 02 24	13 48 36	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 32 46.80	063 30 00	47 12 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 33 12.50	072 24 00	46 30 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 33 20.00	075 54 00	46 06 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 33 29.80	083 48 00	44 30 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 33 49.00	087 12 00	44 12 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 33 49.90	086 30 00	43 42 00	
PT RICO A WI	18 10 31 N	292 54 42	408	07 34 00.19	014 41 24	07 22 12	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 34 02.60	090 00 00	43 06 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 34 10.60	092 42 00	41 36 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 34 19.80	095 18 00	40 36 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 34 28.70	097 48 00	39 06 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	07 38 42.00	002 29 54 *	18 12 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	07 40 29.00	001 45 30 *	62 42 00 *	
PT RICO A WI	18 10 31 N	292 54 42	408	08 01 00.00	004 17 24	06 15 36	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
22 JULY 1958 (CONT)							
PT RICO A WI	18 10 31 N	292 54 42	408	08 01 30.00	007 01 12	08 28 12	
PT RICO A WI	18 10 31 N	292 54 42	408	08 02 00.00	009 39 36	10 23 24	
PT RICO A WI	18 10 31 N	292 54 42	408	08 02 30.00	012 51 36	12 24 00	
PT RICO A WI	18 10 31 N	292 54 42	408	08 03 00.00	016 07 12	14 33 00	
PT RICO A WI	18 10 31 N	292 54 42	408	08 03 30.00	019 52 48	16 45 36	
PT RICO A WI	18 10 31 N	292 54 42	408	08 04 00.00	023 58 48	18 53 24	
PT RICO A WI	18 10 31 N	292 54 42	408	08 04 30.00	028 36 00	20 56 24	
PT RICO A WI	18 10 31 N	292 54 42	408	08 05 00.00	033 24 00	22 49 48	
PT RICO A WI	18 10 31 N	292 54 42	408	08 05 30.00	038 43 12	24 29 24	
PT RICO A WI	18 10 31 N	292 54 42	408	08 06 00.00	044 12 36	25 58 48	
PT RICO A WI	18 10 31 N	292 54 42	408	08 11 30.00	101 48 36	22 39 00	
PT RICO A WI	18 10 31 N	292 54 42	408	08 12 00.00	105 16 12	21 12 00	
PT RICO A WI	18 10 31 N	292 54 42	408	08 12 30.00	108 21 36	19 47 24	
PT RICO A WI	18 10 31 N	292 54 42	408	08 13 00.00	111 09 36	18 15 00	
PT RICO A WI	18 10 31 N	292 54 42	408	08 13 30.00	116 37 48	16 47 24	
PT RICO A WI	18 10 31 N	292 54 42	408	08 14 00.00	116 01 48	15 25 48	
PT RICO A WI	18 10 31 N	292 54 42	408	08 15 00.00	120 05 24	12 20 24	
PT RICO A WI	18 10 31 N	292 54 42	408	08 15 30.00	121 49 12	10 58 12	
PT RICO A WI	18 10 31 N	292 54 42	408	08 16 00.00	123 19 48	09 36 36	
PT RICO A WI	18 10 31 N	292 54 42	408	08 16 30.00	124 49 48	08 18 00	
CHARLOTTE NC	35 13 00 N	279 12 30	195	09 14 31.00	270 00 00	86 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 14 47.00	000 30 00	45 00 00	
ST PL A MINN	44 55 03 N	266 50 01	306	09 15 19.50	005 00 00	60 30 00	
AMES IOWA	42 01 43 N	266 70 59		09 15 56.50	001 48 34 *	62 24 58 *	
ST PL B MINN	44 58 30 N	266 45 59	285	09 16 13.20	094 15 00	68 00 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 16 46.00	003 18 00 *	47 48 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 16 57.79	081 00 00	57 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 19 26.00	120 30 00	32 48 00	
WPALMB B FLA	27 00 00 N	279 51 00		09 19 59.25	023 09 42 *	66 44 00 *	
WPALMB B FLA	27 00 00 N	279 51 00		09 20 15.25	023 33 06 *	63 07 00 *	
WPALMB B FLA	27 00 00 N	279 51 00		09 20 31.24	023 53 42 *	58 55 00 *	
EGLN AFB FLA	30 33 00 N	273 22 41		09 20 58.50	002 23 05 *	29 09 09 *	
EGLN AFB FLA	30 33 00 N	273 22 41		09 21 17.50	002 22 24 *	34 18 34 *	
WPALMB B FLA	27 00 00 N	279 51 00		09 21 51.25	000 52 42 *	35 09 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 22 29.00	090 00 00	73 00 00	
WPALMB B FLA	27 00 00 N	279 51 00		09 23 23.25	001 07 24 *	25 01 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 25 31.10	112 05 00	22 53 00	
CURACAO NWI	12 09 04 N	291 03 28	6	09 28 14.24	000 20 24 *	02 12 00 *	
AMES IOWA	42 01 43 N	266 70 59		09 28 37.00	019 50 03 *	38 19 30 *	
CURACAO NWI	12 09 04 N	291 03 28	6	09 29 59.78	001 01 48 *	21 16 00 *	
ELTHRA A BWI	25 16 03 N	283 41 12	38	09 30 30.00	156 59 24	14 46 12	
ELTHRA A BWI	25 16 03 N	283 41 12	38	09 31 00.00	156 55 48	12 44 42	
ELTHRA A BWI	25 16 03 N	283 41 12	38	09 31 30.00	156 57 00	10 51 54	
CURACAO NWI	12 09 04 N	291 03 28	6	09 31 41.03	001 37 42 *	36 47 00 *	
ELTHRA A BWI	25 16 03 N	283 41 12	38	09 32 00.00	156 51 36	09 15 00	
ELTHRA A BWI	25 16 03 N	283 41 12	38	09 32 30.00	156 51 36	08 10 12	
ELTHRA A BWI	25 16 03 N	283 41 12	38	09 33 00.00	156 51 36	06 33 00	
ELTHRA A BWI	25 16 03 N	283 41 12	38	09 33 30.00	156 51 36	04 51 36	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 35 51.00	003 10 00 *	05 30 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	09 41 00.00	004 00 00 *	00 54 00 *	
SPOK N WASH	47 37 37 N	242 38 59	706	10 58 23.00	225 00 00	85 30 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	11 00 18.60	292 24 00	47 18 00	
ALMG00-GS NM	32 52 22 N	254 03 05	1339	11 00 47.00	019 10 00 *	65 18 00 *	
ALMG00-GS NM	32 52 22 N	254 03 05	1339	11 02 58.00	022 35 00 *	50 42 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	11 04 47.00	022 30 00 *	47 00 00 *	
ALMG00-GS NM	32 52 22 N	254 03 05	1339	11 05 07.00	000 44 00 *	05 10 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	11 06 14.00	000 00 00	46 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	17 53 54.00	004 02 00 *	46 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	17 55 07.00	003 52 00 *	32 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	17 55 11.00	003 51 00 *	31 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	17 56 16.00	009 00 00	31 30 00	
YATSUSHIRO J	32 30 21 N	130 36 15	3	17 56 40.00	009 00 00	21 00 00	
HYO SV B 2 J	34 35 23 N	133 46 15	5	17 56 53.70	003 06 00 *	08 18 00 *	
FUCHU J	34 34 17 N	133 14 19	30	17 57 59.00	003 07 00 *	02 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	19 38 41.00	020 28 00 *	45 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 00 56.29	003 48 36 *	05 45 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 01 12.84	003 55 00 *	07 56 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 01 27.38	004 01 06 *	09 59 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 02 51.27	004 39 42 *	21 26 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 03 07.79	004 47 36 *	23 30 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
22 JULY 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 53 32.40	319 00 00	38 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 53 41.00	321 24 00	41 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 53 49.90	020 18 00	61 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 53 58.50	032 54 00	61 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 54 33.00	067 48 00	53 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 54 42.10	072 06 00	50 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 54 49.40	075 30 00	48 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 54 55.90	079 18 00	46 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 03.90	081 00 00	43 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 11.90	083 24 00	42 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 16.80	085 00 00	40 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 22.80	086 24 00	39 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 30.70	088 18 00	37 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 38.90	089 42 00	35 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 47.90	091 12 00	33 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 55 55.80	092 24 00	31 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 04.10	093 36 00	30 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 11.30	094 24 00	28 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 19.20	095 18 00	27 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 26.20	095 54 00	26 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 34.60	096 42 00	25 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 41.90	097 24 00	24 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 49.60	098 00 00	23 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 57.00	098 06 00	22 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 05.10	099 06 00	21 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 22.40	100 06 00	19 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 30.30	100 30 00	18 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 40.50	101 06 00	17 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 49.90	101 30 00	16 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 58.30	101 54 00	15 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 08.00	102 18 00	14 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 17.20	102 36 00	14 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 25.80	102 54 00	13 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 34.70	103 18 00	12 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 43.90	103 36 00	11 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 52.10	103 36 00	11 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 02.20	104 06 00	10 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 10.20	104 18 00	10 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 19.90	106 36 00	09 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 24.30	104 54 00	08 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 37.00	105 06 00	08 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 47.70	105 18 00	07 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 55.50	105 24 00	07 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 03.10	105 36 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 13.10	105 48 00	06 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 21.10	106 00 00	05 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 29.80	106 06 00	05 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 38.70	106 18 00	04 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 54.90	106 18 00	03 48 00	
23 JULY 1958							
BERL RU GER	52 32 29 N	013 20 58	53	00 38 51.00	012 01 00 *	55 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 39 45.00	037 48 00	18 58 00	
BERL RU GER	52 32 29 N	013 20 58	53	00 39 50.50	010 43 00 *	69 30 00 *	
COPNGN A OEN	55 44 41 N	012 33 09		00 40 00.00	001 38 00 *	58 45 00 *	
COPNGN A OEN	55 44 41 N	012 33 09		00 40 02.14	001 38 00 *	58 12 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 20.70	046 54 00	18 20 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 38.70	051 09 00	17 59 00	
COPNGN A DEN	55 44 41 N	012 33 09		00 40 55.14	001 33 00 *	35 36 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 55.55	054 52 00	17 31 00	
HANOVR C GER	52 24 06 N	009 45 33		00 40 55.80	003 06 00 *	42 50 00 *	
COPNGN A OEN	55 44 41 N	012 33 09		00 41 00.00	001 33 00 *	34 25 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	00 41 07.50	002 47 00 *	46 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 41 21.10	060 08 00	16 24 00	
BERL RU GER	52 32 29 N	013 20 58	53	00 41 23.00	002 32 00 *	41 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 41 38.30	063 16 00	15 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 41 56.90	066 33 00	14 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 42 13.30	069 06 00	14 01 00	
BERL RU GER	52 32 29 N	013 20 58	53	00 42 32.00	002 11 00 *	23 00 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	00 43 53.00	002 04 00 *	02 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 44 08.20	082 58 00	08 25 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
23 JULY 1958 (CONT)							
HERSTMCX ENG	50 52 01 N	000 20 16	32	02 25 34.00	000 00 00		
CHELMSFO ENG	51 43 00 N	000 30 00		02 26 15.00	000 13 00 *	90 00 00	
HERSTMCX ENG	50 52 01 N	000 20 16	32	02 26 54.00	122 00 00	34 00 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	02 29 50.00	019 44 00 *	52 00 00	
HERSTMCX ENG	50 52 01 N	000 20 16	32	02 30 04.00	131 00 00	32 42 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305			20 00 00	
PRET B S AF	25 43 43 S	028 12 42	1311	02 32 00.00	021 47 24 *	10 00 00 *	
JOHNG C S AF	26 07 00 S	028 00 00	1615	02 50 00.90	003 27 00 *	12 36 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	02 50 06.00	002 27 30 *	12 36 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	02 51 42.60	003 59 00 *	- 01 42 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	02 53 25.50	004 34 00 *	- 14 30 00 *	
JOHNG E S AF	26 08 00 S	028 01 00	1672	02 54 02.00	004 52 00 *	- 19 00 00 *	
UNION JOHNSRG	26 10 55 S	028 04 30	1806	02 56 30.60	005 50 00 *	- 33 48 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	02 56 48.20	005 53 00 *	- 35 30 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	03 03 45.90	001 37 00 *	- 21 18 00 *	
S FERNNOO SP	36 27 42 N	353 47 42	30	03 32 00.00	021 47 24 *	10 00 00 *	
CAMBROG MASS	42 22 47 N	288 52 14	24	04 13 25.00	021 21 00 *	45 36 00 *	
CAMBROG MASS	42 22 47 N	288 52 14	24	06 10 09.12	055 00 00	05 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	06 10 16.89	053 12 00	03 36 00	
LAPLAT C ARG	34 54 26 S	302 05 30		06 10 19.48	049 42 00	03 36 00	
LAPLAT C ARG	34 54 26 S	302 05 30		08 05 59.40	005 23 28 *	- 12 34 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 08 02.10	006 05 33 *	- 21 45 12 *	
AMES A IOWA	42 01 59 N	266 22 00	305	08 10 23.40	006 57 23 *	- 28 46 30 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	09 19 06.50	333 30 00	38 48 00	
AMES IOWA	42 01 43 N	266 20 59		09 19 36.30	031 00 00	31 30 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	09 20 04.00	020 39 03 *	72 19 37 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 20 39.70	020 12 00 *	48 00 00 *	
AMES IOWA	42 01 43 N	266 20 59		09 20 51.00	356 30 00	71 18 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	09 21 31.00	023 57 57 *	45 44 08 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	09 21 45.00	270 00 00	71 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 22 04.80	022 09 33 *	33 19 48 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	09 22 42.00	128 30 00	61 48 00	
MEMPHIS TENN	35 09 26 N	270 08 46	85	09 23 39.00	180 00 00	49 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 24 09.50	090 00 00	71 15 00	
AMES IOWA	42 01 43 N	266 20 59		09 24 12.00	139 00 00	50 18 00	
AIKEN CUM SC	33 34 18 N	278 15 00	137	09 24 17.00	001 12 42 *	- 01 13 01 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 25 35.20	023 06 30 *	15 36 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 27 00.00	270 00 00	80 00 00	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 40 08.90	002 06 12 *	14 28 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 41 11.30	002 27 42 *	02 39 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 41 26.90	002 33 24 *	- 00 26 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 42 34.10	000 28 29 *	29 33 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 43 15.80	000 36 40 *	26 05 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 44 27.80	000 52 01 *	18 56 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 45 21.20	001 04 21 *	12 43 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 45 41.40	001 09 09 *	10 03 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 46 33.70	001 23 20 *	02 45 12 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 47 12.70	001 35 44 *	- 03 39 12 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 47 51.60	001 49 20 *	- 10 33 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 48 39.30	002 08 55 *	- 19 32 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 49 45.90	002 42 35 *	- 32 42 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 51 12.50	003 43 51 *	- 48 08 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 56 07.30	008 53 58 *	- 60 27 18 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	11 05 47.40	270 00 00	41 18 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	11 05 49.60	019 09 12 *	50 48 00 *	
ALMGROO A NM	32 52 24 N	254 02 58	1335	11 05 50.00	019 08 00 *	50 49 00 *	
KIRTLNO C NM	34 50 53 N	253 02 56	1688	11 06 00.00	305 00 00	44 18 00	
KIRTLNO C NM	34 50 53 N	253 02 56	1688	11 06 15.40	299 33 00	47 01 48	
KIRTLNO C NM	34 50 53 N	253 02 56	1688	11 06 30.60	295 15 00	50 25 12	
KIRTLNO C NM	34 50 53 N	253 02 56	1688	11 06 45.90	289 37 12	53 47 24	
KIRTLNO C NM	34 50 53 N	253 02 56	1688	11 07 01.30	283 10 12	56 45 36	
KIRTLNO C NM	34 50 53 N	253 02 56	1688	11 07 16.60	275 30 36	59 30 00	
KIRTLNO C NM	34 50 53 N	253 02 56	1688	11 07 25.80	269 43 12	61 00 36	
ALMGDO-GS,NM	32 5' 22 N	254 03 05	1339	11 07 31.90	265 46 48	61 39 00	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 07 41.00	021 30 12 *	34 09 00 *	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 07 47.20	255 26 24	63 07 12	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 08 02.50	244 20 24	63 44 24	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 08 17.80	233 13 12	63 15 36	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 08 33.20	223 06 36	62 03 36	
EL PASO TEX	31 49 41 N	253 36 36		11 08 48.50	214 23 24	60 11 24	
				11 08 58.50	250 00 00	69 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
23 JULY 1958 (CONT)							
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 09 03.80	206 47 24	58 10 12	
ALMGDO-GS NM	32 52 22 N	254 03 05	1339	11 09 07.40	022 50 30 *	12 20 00 *	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 09 19.10	200 42 36	55 24 36	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 09 34.40	195 53 24	52 54 00	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 09 49.70	191 38 24	50 13 48	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 10 05.00	183 20 24	47 42 00	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 10 20.40	185 09 00	45 03 36	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 10 35.70	182 46 12	42 28 48	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 10 51.00	180 36 36	40 13 12	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 10 57.10	179 55 12	39 16 12	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 11 06.30	178 50 24	37 57 36	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 11 21.60	177 54 36	35 50 24	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 11 36.90	175 54 36	33 55 12	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 11 52.20	174 42 36	31 57 00	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 12 07.60	173 49 00	30 02 24	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 12 22.90	172 45 36	28 20 24	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 12 38.20	171 48 36	26 53 24	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 12 53.50	171 00 00	25 12 36	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	11 13 08.80	170 15 00	23 51 36	
				11 13 16.20	022 42 06 *	11 18 00 *	
KIRTLND C NM	34 50 53 N	253 02 56	1688	11 13 18.00	169 51 00	23 03 36	
MIYAZAKI J	31 55 23 N	131 25 24	8	17 56 05.00	008 12 00 *	77 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	17 57 42.00	004 25 00 *	65 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	17 58 59.00	003 29 00 *	47 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	17 59 15.00	001 53 00 *	42 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	18 00 20.00	002 05 00 *	23 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	18 01 15.00	090 00 00	28 00 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	18 01 34.00	002 20 00 *	07 00 00 *	
ASHIYA J	34 43 42 N	135 18 55	14	18 02 00.00	002 18 00 *	01 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	19 46 13.00	022 01 00 *	02 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	19 48 24.00	023 07 00 *	22 00 00 *	
HANOVR B GER	52 22 10 N	009 45 11		23 45 14.00	002 07 30 *	34 45 00 *	
24 JULY 1958							
COPNGN A DEN	55 44 41 N	012 33 09		00 41 56.00	013 42 00 *	49 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 42 15.00	013 54 00 *	53 50 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 42 39.00	014 12 00 *	61 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 42 40.20	015 54 00	27 48 00	
COPNGN A DEN	55 44 41 N	012 33 09		00 42 50.00	015 39 00 *	74 20 00 *	
HANOVR C GER	52 24 06 N	009 45 33		00 43 14.20	002 07 30 *	34 30 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		00 43 14.20	007 02 36 *	69 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 43 22.00	016 05 00 *	75 40 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		00 43 23.20	006 25 18 *	58 36 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		00 43 31.20	005 55 18 *	67 42 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 43 38.70	038 42 00	29 30 00	
BILTHVN NETH	52 08 27 N	005 12 46		00 43 40.10	005 24 48 *	66 24 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 43 41.00	019 22 00 *	79 55 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		00 43 49.20	004 57 54 *	64 54 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 44 13.00	023 04 00 *	70 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 44 41.90	059 54 00	26 48 00	
COPNGN A DEN	55 44 41 N	012 33 09		00 44 43.00	000 02 00 *	55 25 00 *	
HANOVR B GER	52 22 10 N	009 45 11		00 45 01.40	002 07 30 *	34 45 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 45 15.00	043 00 00	56 12 00	
COPNGN A DEN	55 44 41 N	012 33 09		00 45 33.00	000 34 00 *	34 15 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		00 45 43.00	000 41 00 *	30 55 00 *	
HANOVR D GER	52 22 00 N	009 40 00		00 46 01.60	002 07 30 *	34 30 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 46 08.90	079 06 00	20 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 46 38.00	087 30 00	43 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 47 28.60	089 18 00	14 12 00	
HANOVR C GER	52 24 06 N	009 45 33		00 48 01.80	001 49 00 *	08 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 48 03.00	103 36 00	28 36 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 48 38.20	095 30 00	09 54 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 49 56.50	002 57 00 *	52 54 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 50 51.00	002 36 00 *	36 24 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 51 25.00	002 34 00 *	26 24 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 52 54.00	002 27 00 *	07 54 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 53 09.50	002 27 00 *	05 06 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 53 37.00	002 30 00 *	00 54 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 54 26.00	002 31 00 *	04 30 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 26 56.40	312 06 00	25 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
24 JUL 1958 (CONT)							
CAMBR U ENG	52 12 51 N	000 05 41	28	02 27 52.80	308 18 00	38 54 00	
HORSBROG ENG	50 53 00 N	000 15 00		02 28 16.00	314 00 00	46 00 00	
CHELMSFO ENG	51 43 00 N	000 30 00		02 28 27.00	017 35 00 *	56 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 28 45.20	299 06 00	56 48 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 29 28.70	027 06 00	73 12 00	
HORSBROG ENG	50 53 00 N	000 15 00		02 29 35.00	293 00 00	74 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 30 21.90	180 12 00	69 54 00	
MILLHILL ENG	51 37 00 N	359 46 00		02 30 25.20	022 40 30 *	36 42 00 *	
CHELMSFO ENG	51 43 00 N	000 30 00		02 30 46.00	022 55 00 *	28 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 31 21.40	157 42 00	51 06 00	
HORSBROG ENG	50 53 00 N	000 15 00		02 31 41.00	151 00 00	52 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 32 13.70	152 12 00	38 48 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 33 05.50	149 36 00	30 06 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 33 59.20	148 06 00	23 24 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	02 35 01.50	147 06 00	17 36 00	
CHELMSFO ENG	51 43 00 N	000 30 00		02 35 10.00	000 50 00 *	- 15 00 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		02 36 00.00	147 00 00	16 30 00	
JOH8G C S AF	26 07 00 S	028 00 00	1615	02 56 46.00	003 32 00 *	- 09 36 00 *	
JOH8G C S AF	26 07 00 S	028 00 00	1615	02 59 06.80	004 37 00 *	- 29 54 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 02 32.52	006 25 06 *	- 47 14 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 03 45.92	007 05 36 *	- 49 31 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	03 51 17.83	000 21 30 *	43 37 00 *	
MADRID SP	40 24 30 N	356 18 43	655	04 19 00.00	021 00 00 *	40 00 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	04 20 31.80	022 43 54 *	- 02 00 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	04 42 48.00	001 01 00 *	- 17 30 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 39 32.10	329 24 00	27 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 39 39.20	329 18 00	31 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 39 47.00	329 06 00	35 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 40 05.00	328 30 00	39 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 40 12.50	329 24 00	42 54 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	07 40 21.70	003 57 04 *	50 06 30 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 40 27.80	330 36 00	46 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 40 58.60	332 12 00	54 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 04.50	332 18 00	57 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 10.10	332 30 00	60 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 13.40	332 01 48	61 02 24	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 20.90	332 02 48	64 02 24	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 23.50	332 01 48	66 02 24	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 41.20	341 00 00	72 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 46.80	341 48 00	75 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 51.70	342 30 00	76 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 54.80	344 00 00	78 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 41 57.60	345 00 00	79 54 00	
DOVER NJ	40 57 30 N	285 28 15	267	07 42 01.00	000 40 00 *	57 30 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 01.80	346 00 00	80 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 04.40	347 30 00	82 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 08.70	348 00 00	83 12 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 15.60	350 00 00	84 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 17.20	011 00 00	87 42 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 19.60	091 00 00	88 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 23.00	129 00 00	87 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 30.80	141 30 00	84 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 33.00	143 54 00	83 18 00	
SCHNTOY A NY	42 53 32 N	285 58 57	235	07 42 34.30	000 31 12 *	33 20 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 35.00	145 00 00	82 12 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 42 57.40	132 54 00	78 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 43 05.90	137 42 00	74 30 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 43 07.00	093 00 00	43 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 43 16.10	139 42 00	69 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 43 28.70	142 06 00	63 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 43 42.70	143 36 00	59 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 43 57.30	144 24 00	55 36 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 44 03.70	144 36 00	54 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 45 27.40	268 00 00	64 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 45 32.60	266 00 00	65 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 45 41.80	258 00 00	67 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 45 49.00	145 42 00	34 12 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 01.40	146 18 00	33 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 10.50	146 30 00	31 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 11.20	146 42 00	32 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
24 JULY 1958 (CONT)							
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 19.10	146 48 00	30 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 20.00	146 42 00	30 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 28.80	146 54 00	29 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 29.40	146 42 00	28 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 37.50	147 00 00	28 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 44.50	147 06 00	26 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 46.00	146 36 00	25 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 46 53.80	147 12 00	25 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 47 03.40	147 18 00	23 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 47 03.80	146 36 00	23 30 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 47 13.00	147 24 00	22 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 47 13.40	146 36 00	21 54 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 47 22.20	147 30 00	22 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 47 40.60	177 00 00	54 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 48 00.60	174 00 00	51 24 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 48 10.60	172 00 00	48 48 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 48 22.00	147 12 00	18 06 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	07 48 38.80	147 00 00	14 30 00	
STBARBRA CAL	34 24 30 N	240 18 30	12	09 13 36.67	022 45 12 *	40 27 00 *	
STBARBRA CAL	34 24 30 N	240 18 30	12	09 15 37.76	023 47 24 *	15 22 00 *	
STBARBRA CAL	34 24 30 N	240 18 30	12	09 17 46.87	000 37 24 *	12 47 00 *	
CCNAV FLA	28 28 12 N	279 24 36		09 23 00.00	281 31 12	51 29 24	
MLWKEE A WIS	42 58 07 N	271 51 05	294	09 24 02.40	018 25 00 *	40 40 00 *	
AMES IOWA	42 01 43 N	266 20 59		09 24 54.00	020 34 08 *	52 08 50 *	
WICHITA KAN	37 41 44 N	262 45 19	413	09 25 10.70	023 02 35 *	00 06 00 *	
DENV R A COLO	39 44 52 N	255 03 24	1625	09 25 35.40	065 12 00	45 30 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 25 37.00	002 32 00	68 48 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 25 47.00	008 11 00	71 22 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	09 25 48.00	270 00 00	51 00 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 25 57.00	016 23 00	73 33 00	
CCNAV FLA	28 28 12 N	279 24 36		09 26 00.00	319 42 36	16 14 42	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 26 06.00	027 02 00	76 01 00	
AMES IOWA	42 01 43 N	266 20 59		09 26 11.00	022 39 50 *	30 38 58 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 26 16.00	040 46 00	77 36 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 26 26.00	056 58 00	78 06 00	
CCNAV FLA	28 28 12 N	279 24 36		09 26 30.00	317 49 48	19 34 12	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 26 35.00	072 26 00	77 41 00	
GHI CPLN ILL	41 51 58 N	272 23 35	194	09 26 41.00	021 24 51 *	19 22 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 26 45.00	087 35 00	76 29 00	
SPOKN A WASH	47 37 37 N	242 38 59	706	09 26 50.00	002 10 00 *	02 40 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 26 55.00	098 00 00	74 48 00	
CCNAV FLA	28 28 12 N	279 24 36		09 27 00.00	315 32 24	23 15 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 27 04.00	106 02 00	72 55 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 27 14.00	113 41 00	70 10 00	
CCNAV FLA	28 28 12 N	279 24 36		09 27 30.00	312 48 36	27 19 48	
AMES IOWA	42 01 43 N	266 20 59		09 27 30.00	023 43 43 *	07 58 29 *	
CCNAV FLA	28 28 12 N	279 24 36		09 28 00.00	309 19 48	31 46 48	
BTLSVL-A OKL	36 42 18 N	264 03 36	213	09 28 00.00	032 08 18 *	23 56 00 *	
DANVILLE ILL	40 06 57 N	272 22 26	189	09 28 23.00	203 00 00	52 00 00	
CCNAV FLA	28 28 12 N	279 24 36		09 28 30.00	304 54 36	36 32 24	
CCNAV FLA	28 28 12 N	279 24 36		09 29 00.00	299 08 24	41 40 12	
CCNAV FLA	28 28 12 N	279 24 36		09 29 30.00	291 36 18	46 45 36	
FT WTH C TEX	32 42 15 N	262 37 30	204	09 30 07.00	002 02 00 *	22 20 00 *	
CCNAV FLA	28 28 12 N	279 24 36		09 30 30.00	268 43 48	55 16 12	
CCNAV FLA	28 28 12 N	279 24 36		09 31 00.00	253 19 12	57 17 24	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 31 04.00	270 00 00	56 00 00	
CCNAV FLA	28 28 12 N	279 24 36		09 31 20.00	223 00 00	55 15 36	
CCNAV FLA	28 28 12 N	279 24 36		09 31 30.00	237 25 12	57 15 00	
CCNAV FLA	28 28 12 N	279 24 36		09 32 30.00	211 26 24	51 57 36	
CCNAV FLA	28 28 12 N	279 24 36		09 33 00.00	202 32 24	48 04 12	
CCNAV FLA	28 28 12 N	279 24 36		09 33 30.00	195 53 24	43 58 48	
CCNAV FLA	28 28 12 N	279 24 36		09 34 00.00	190 47 24	39 59 24	
CCNAV FLA	28 28 12 N	279 24 36		09 34 30.00	186 48 36	36 17 42	
CCNAV FLA	28 28 12 N	279 24 36		09 35 00.00	183 40 12	32 17 42	
CCNAV FLA	28 28 12 N	279 24 36		09 35 30.00	181 13 48	29 34 12	
CCNAV FLA	28 28 12 N	279 24 36		09 36 00.00	179 01 12	26 39 00	
CCNAV FLA	28 28 12 N	279 24 36		09 36 30.00	177 15 54	23 55 12	
CCNAV FLA	28 28 12 N	279 24 36		09 37 00.00	175 48 00	21 24 54	
CCNAV FLA	28 28 12 N	279 24 36		09 37 30.00	174 29 24	19 07 30	
CCNAV FLA	28 28 12 N	279 24 36		09 38 00.00	173 22 48	16 57 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
24 JULY 1958 (CONT)							
STBARRA CAL	34 24 30 N	240 18 30	12	09 40 31.49	023 04 12 *	- 36 23 00 *	
STBARRA CAL	34 24 30 N	240 18 30	12	09 41 52.17	023 26 36 *	- 46 24 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 46 09.00	001 33 30 *	- 10 00 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 46 13.60	023 32 00 *	31 06 36 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 46 40.20	001 45 48 *	16 43 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 49 34.90	000 14 49 *	10 03 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 49 51.80	000 18 37 *	07 58 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 53 03.20	001 04 27 *	- 24 13 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 54 54.50	001 56 02 *	- 47 32 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		10 00 04.10	009 17 07 *	- 66 53 24 *	
SPOKN A WASH	47 37 37 N	242 38 59	706	11 04 10.00	225 00 00	49 00 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	11 10 33.60	259 30 00	33 00 00	
ALMGROD A NM	32 52 24 N	254 02 58	1335	11 11 27.00	020 17 00 *	29 02 00 *	
EL PASO TEX	31 49 41 N	253 36 36		11 13 21.50	145 00 00	51 00 00	
ALMGROD A NM	32 52 24 N	254 02 58	1335	11 13 40.00	022 03 00 *	01 48 00 *	
ALMGROD A NM	32 52 24 N	254 02 58	1335	11 14 56.00	022 44 00 *	- 10 46 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	11 16 35.57	025 57 42 *	13 15 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	18 01 27.00	020 52 00 *	25 14 00 *	
HYO SV B 2 J	34 35 23 N	133 46 15	5	18 02 55.60	001 04 18 *	43 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	18 03 31.00	022 43 00 *	- 02 14 00 *	
KONKO J	34 32 31 N	133 37 40	4	18 03 50.00	002 03 00 *	26 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	19 57 29.13	005 03 36 *	- 15 19 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	19 57 45.59	005 10 12 *	- 17 06 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 10 50.74	002 45 06 *	- 28 22 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 11 07.13	002 54 30 *	- 31 15 00 *	
ADLATO C AUS	34 44 00 S	138 40 00		20 13 09.00	003 56 00 *	- 40 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 13 34.78	004 45 36 *	- 52 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 13 51.25	005 00 00 *	- 53 27 00 *	
25 JULY 1958							
MEUDON FR	48 48 18 N	002 13 52	162	00 47 22.40	015 26 00	26 21 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 47 47.00	023 46 00	28 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 48 04.20	029 48 00	28 58 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 48 26.80	038 18 00	29 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 48 42.80	043 44 00	29 35 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 48 59.20	049 34 00	29 25 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 49 15.40	054 41 00	28 59 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 49 34.60	060 33 00	28 10 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 49 52.50	065 29 00	27 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 50 07.70	069 33 00	26 04 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 50 26.70	073 57 00	24 44 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 50 43.30	077 28 00	23 23 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 51 02.00	081 00 00	22 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 51 20.10	084 05 00	20 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 51 35.10	086 20 00	19 44 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 52 01.00	089 58 00	17 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 52 53.70	095 48 00	14 10 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 13.20	097 34 00	13 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 29.20	098 59 00	12 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 46.80	100 17 00	11 02 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 53 47.00	001 14 00 *	60 12 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 04.60	101 33 00	10 01 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 23.30	102 50 00	08 59 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 54 44.00	001 31 00 *	38 06 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 06.80	105 24 00	06 43 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 55 15.00	001 36 00 *	29 18 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 24.10	106 15 00	05 49 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 41.40	107 04 00	04 57 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 56 04.00	001 37 00 *	16 36 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 58 29.00	001 47 00 *	- 09 18 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 30 09.50	329 00 00	05 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 30 25.50	329 24 00	07 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 30 36.00	329 30 00	07 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 30 50.00	330 00 00	09 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 31 00.00	330 06 00	10 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 31 16.50	330 18 00	12 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 31 26.00	330 30 00	13 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 31 34.00	330 36 00	14 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 31 44.00	330 54 00	16 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 31 53.00	331 12 00	17 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGST ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
25 JULY 1958 (CONT)							
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 04.00	331 30 00	18 50 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 10.50	331 42 00	19 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 32 18.50	331 54 00	20 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 29.50	332 18 00	22 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 37.00	332 36 00	23 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 32 45.50	333 00 00	25 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 32 58.00	333 30 00	27 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 33 08.00	333 54 00	29 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2062	02 33 18.50	334 30 00	31 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2062	02 33 29.00	335 00 00	34 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 33 36.00	335 42 00	36 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 33 43.00	336 00 00	37 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 33 52.00	336 48 00	39 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 34 01.50	337 30 00	42 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 34 09.50	338 30 00	44 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 34 14.50	339 00 00	46 18 00	
AGEN FRANCE	44 10 36 N	000 35 42		02 34 16.00	331 00 00	51 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 34 24.50	340 18 00	49 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 34 35.00	341 48 00	52 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 34 44.00	343 42 00	55 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 34 53.00	345 48 00	58 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 35 02.00	348 30 00	62 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 35 13.00	352 48 00	66 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 35 26.00	359 36 00	70 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 35 34.00	005 18 00	73 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 35 42.00	014 54 00	74 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 35 54.00	034 12 00	78 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 36 04.50	056 00 00	79 24 00	
S FERNNOO SP	36 27 42 N	353 47 42	30	02 36 06.03	000 36 30 *	58 53 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 36 12.00	073 36 00	78 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 36 24.50	094 36 00	76 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 36 34.00	105 12 00	73 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 36 43.50	112 48 00	71 00 00	
MEUOON FR	48 48 18 N	002 13 57	162	02 36 50.00	171 50 00	44 46 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 36 50.50	117 12 00	68 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 36 58.50	121 42 00	66 12 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 37 04.60	169 22 00	41 43 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 37 05.00	123 30 00	64 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 37 11.50	125 18 00	62 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2062	02 37 21.00	127 42 00	59 24 00	
MEUOON FR	48 48 18 N	002 13 52	162	02 37 21.10	167 09 00	38 46 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 37 26.50	128 54 00	57 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 37 32.50	130 12 00	56 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 37 40.00	131 24 00	54 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 37 46.00	132 24 00	51 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 37 55.00	133 18 00	50 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 38 01.50	134 12 00	48 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 38 08.50	134 48 00	47 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 38 16.00	135 42 00	45 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 38 22.00	136 00 00	44 06 00	
PIC MIOI FR	42 56 12 N	000 00 32	2862	02 38 30.00	136 42 00	42 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 38 37.50	137 06 00	41 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 38 45.00	137 48 00	59 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 38 55.50	137 12 00	37 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 39 04.50	138 48 00	36 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 39 11.00	139 06 00	35 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 39 16.00	139 12 00	34 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 39 21.50	139 24 00	33 36 00	
PIC MIOI FR	42 56 12 N	000 00 32	2862	02 39 27.50	139 42 00	35 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 39 35.50	140 06 00	31 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 39 42.00	140 12 00	38 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2062	02 39 48.50	140 24 00	30 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2062	02 39 58.50	140 54 00	28 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 40 07.50	141 06 00	27 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 40 17.50	141 18 00	26 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 40 26.50	141 30 00	25 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 40 37.00	141 48 00	24 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 40 45.00	142 00 00	25 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 40 54.00	142 12 00	22 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	02 41 03.50	142 18 00	21 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
25 JULY 1958 (CONT)							
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 41 10.00	142 24 00	20 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 41 18.00	142 30 00	20 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 41 27.50	142 42 00	19 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 41 34.40	142 54 00	18 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 41 42.00	143 00 00	18 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 41 52.00	143 12 00	17 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 41 59.50	143 18 00	16 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 42 05.50	143 18 00	16 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 42 13.50	143 24 00	15 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 42 20.50	143 36 00	15 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 42 28.00	143 42 00	14 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 42 37.50	143 48 00	14 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 42 47.00	143 48 00	13 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 42 53.50	143 54 00	12 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 43 04.00	144 00 00	12 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 43 11.50	144 06 00	11 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 43 25.00	144 12 00	10 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 43 30.50	144 30 00	10 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 43 37.50	144 30 00	10 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 43 48.00	144 36 00	09 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 43 55.50	144 42 00	08 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 04.00	144 48 00	08 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 12.00	144 48 00	08 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 19.00	144 48 00	07 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 27.50	144 54 00	07 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 34.50	144 54 00	06 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 41.50	001 45 00	06 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 48.50	145 00 00	06 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 44 58.00	145 06 00	05 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 45 06.50	145 06 00	05 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 45 16.00	145 18 00	04 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 45 25.50	145 24 00	04 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 45 33.00	145 30 00	03 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 45 41.50	145 36 00	03 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 45 48.00	145 36 00	03 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 45 56.00	145 36 00	02 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 46 05.00	145 42 00	02 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 46 17.50	145 48 00	01 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 46 27.00	145 48 00	01 24 00	
PIC MIDI FR	42 56 12 N	070 08 32	2862	02 46 35.50	145 54 00	01 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 46 44.50	146 00 00	00 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 46 54.00	146 00 00	00 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	02 47 08.00	146 06 00	- 00 12 00	
JOH8G C S AF	26 07 00 S	028 00 00	1615	03 00 31.50	002 40 00 *	- 14 12 00 *	
JOH8G C S AF	26 07 00 S	028 00 00	1615	03 01 40.00	003 13 00 *	- 26 12 00 *	
BOYDN BLMFTN	29 02 18 S	026 24 21	1387	03 02 43.00	003 46 54 *	- 24 54 00 *	
JOH8G E S AF	26 08 00 S	028 01 00	1672	03 02 48.60	003 50 30 *	- 36 18 00 *	
BOYDN BLMFTN	29 02 18 S	026 24 21	1387	03 03 42.00	004 29 12 *	- 34 18 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 06 29.03	006 21 54 *	- 55 28 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 07 36.29	007 08 42 *	- 56 35 00 *	
BOYDN BLMFTN	29 02 18 S	026 24 21	1387	03 07 42.00	006 54 24 *	- 49 42 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	04 50 32.00	183 30 00	56 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	07 45 41.80	258 00 00	67 54 00	
COLUMBUS O	40 01 49 N	276 57 46	229	07 46 58.00	002 02 00 *	22 45 00 *	
SCHNTDY A NY	42 53 32 N	285 58 57	235	07 47 24.50	000 23 49 *	09 24 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 08 31.20	002 53 43 *	17 59 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 08 32.70	002 54 01 *	17 50 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 10 44.60	003 36 27 *	02 32 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 11 17.40	003 47 57 *	- 01 38 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 11 29.60	003 52 05 *	- 03 06 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 11 54.00	003 56 48 *	- 05 35 12 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 13 39.80	004 44 49 *	- 17 51 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 14 20.00	005 03 00 *	- 22 31 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 14 49.50	005 16 58 *	- 25 15 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		08 16 08.30	005 54 46 *	- 31 23 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 25 14.00	315 30 00	16 00 00	
SPOKN A WASH	47 37 37 N	242 38 59	706	09 25 33.50	045 00 00	48 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 26 34.00	309 00 00	26 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 27 34.00	300 00 00	37 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 28 28.00	285 30 00	48 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
25 JULY 1958 (CONT)							
AMES IOWA	42 01 43 N	266 20 59		09 28 56.00	020 15 19 *	35 12 31 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 29 29.00	254 00 00	58 18 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 29 40.00	063 15 00	72 21 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 30 00.00	096 32 00	79 10 00	
AMES IOWA	42 01 43 N	266 20 59		09 30 08.00	021 47 52 *	17 42 21 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 30 09.00	116 50 00	80 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 30 20.50	220 00 00	57 18 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 30 27.00	150 35 00	78 42 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 30 27.20	022 48 36 *	29 01 12 *	
WICHITA KAN	37 41 44 N	262 45 19	413	09 30 37.70	023 11 58 *	34 36 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	09 30 37.70	023 11 58 *	00 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 31 11.50	196 30 00	50 18 00	
BRYAN TEX	30 38 14 N	263 39 58	92	09 31 14.10	023 10 00 *	63 36 00 *	
SPOKN A WASH	47 37 37 N	242 38 59	706	09 31 35.00	000 00 00	30 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 32 04.50	184 30 00	41 36 00	
EGLN AFB FLA	30 33 00 N	273 22 41		09 32 23.20	020 50 03 *	33 41 26 *	
EGLN AFB FLA	30 33 00 N	273 22 41		09 32 37.30	020 58 51 *	31 50 09 *	
BILOXI MISS	30 23 27 N	271 08 28	7	09 33 06.00	270 00 00	68 00 00	
EGLN AFB FLA	30 33 00 N	273 22 41		09 33 06.50	021 48 02 *	20 07 18 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 33 13.00	175 00 00	32 18 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	09 33 23.40	133 18 00	63 24 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 34 14.00	170 30 00	25 18 00	
EGLN AFB FLA	30 33 00 N	273 22 41		09 34 16.50	022 07 46 *	13 24 08 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 34 22.00	156 02 00	29 15 00	
WPALMR A FLA	26 39 30 N	279 55 20	5	09 34 30.00	270 00 00	41 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 36 10.50	290 30 00	59 00 00	
EGLN AFB FLA	30 33 00 N	273 22 41		09 36 25.70	022 19 54 *	09 12 37 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 53 56.20	023 39 11 *	01 35 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 54 31.50	023 43 24 *	- 03 17 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 55 35.60	023 53 26 *	- 13 26 12 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 55 50.20	023 55 42 *	- 15 56 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 58 00.70	000 25 15 *	- 43 54 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 58 36.00	000 34 37 *	- 49 21 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		09 58 57.70	000 42 33 *	- 54 00 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		10 03 03.00	008 45 37 *	- 78 58 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		10 06 16.10	011 05 47 *	- 62 17 42 *	
BRYAN TEX	30 38 14 N	263 39 58	92	10 31 25.10	023 21 00 *	61 00 00 *	
ALMGROO A NM	32 52 24 N	254 02 58	1335	11 13 21.00	018 42 00 *	31 46 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	11 13 58.00	019 26 00 *	23 00 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	11 14 19.20	270 00 00	65 30 00	
ALMGROO A NM	32 52 24 N	254 02 58	1335	11 15 00.00	019 50 00 *	20 57 00 *	
ALMGROO A NM	32 52 24 N	254 02 58	1335	11 15 53.00	021 03 00 *	03 06 00 *	
HYO SV B 2 J	34 35 23 N	133 45 15	5	18 05 11.00	022 14 00 *	55 48 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	18 07 38.00	090 00 00	65 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 07 53.00	001 37 00 *	- 07 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	18 08 45.60	003 18 00 *	28 06 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 10 40.00	001 32 00 *	- 10 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 11 09.00	001 39 00 *	- 16 00 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	22 54 03.00	026 24 00	10 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 05 40.50	291 48 00	68 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 06 57.50	132 36 00	63 24 00	
COPNGN A DEN	55 44 41 N	012 33 09		23 07 23.04	002 06 00 *	33 06 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		23 07 30.00	002 04 00 *	32 10 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 57.10	127 36 00	41 36 00	
COPNGN A DEN	55 44 41 N	012 33 09		23 08 00.00	001 53 00 *	25 55 00 *	
26 JULY 1958							
UNION JOHNSB	26 10 55 S	028 04 30	1806	00 30 25.20	001 81 00 *	- 09 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 50 03.20	318 06 48	29 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 50 28.70	014 29 00 *	51 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 50 37.90	318 06 48	38 12 00	
COPNGN B DEN	55 42 13 N	012 27 09	10	00 50 47.32	123 54 00	35 30 00	
COPNGN A DEN	55 44 41 N	012 33 09		00 50 52.00	017 26 00 *	53 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 51 07.00	318 24 48	48 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 51 40.70	319 12 48	61 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 51 50.80	019 18 00 *	66 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 52 07.60	321 18 48	74 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 52 58.40	134 48 48	80 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 53 09.90	022 55 00 *	40 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 53 25.30	136 24 48	67 48 00	

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STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
26 JULY 1958 (CONT)							
BERLN SG GER	52 28 30 N	013 20 30	50	00 54 07.10	137 18 48	52 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 54 40.80	137 48 48	43 42 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 54 46.00	016 06 00 *	70 42 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 54 50.60	000 03 00 *	10 00 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 55 15.00	017 35 00 *	74 06 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 55 16.20	138 12 48	36 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 10.80	138 18 48	27 24 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 56 21.60	021 23 00 *	68 30 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 56 49.00	022 21 00 *	62 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 52.40	138 30 48	22 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 38.50	138 42 48	18 06 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 58 24.60	000 09 36 *	29 06 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 26.30	139 00 48	14 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 41.20	000 49 00 *	- 15 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 58.40	139 06 48	12 00 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 59 11.00	000 25 00 *	15 18 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	00 59 36.00	000 35 00 *	08 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 59 45.60	139 18 48	09 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 00 02.70	139 18 48	08 00 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 00 55.00	000 56 00 *	- 07 36 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 01 27.00	001 03 00 *	- 12 36 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 02 20.00	001 09 00 *	- 16 42 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 03 00.00	001 11 00 *	- 20 42 00 *	
LEPUY FRANCE	45 03 18 N	003 53 42		02 40 00.00	110 00 00	57 00 00	
S FERNDO SP	36 27 42 N	353 47 42	30	02 40 32.91	001 53 48 *	42 46 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 02 28.95	001 00 36 *	- 05 09 00 *	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	03 02 52.00	001 18 00 *	- 09 00 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	03 03 45.90	001 37 00 *	- 21 18 00 *	
JOHSG C S AF	26 07 00 S	028 00 00	1615	03 05 31.00	002 35 00 *	- 40 00 00 *	
PRET 8 S AF	25 43 43 S	028 12 42	1311	03 05 38.20	002 37 00 *	- 43 06 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 06 10.14	002 55 06 *	- 47 41 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 10 15.07	006 46 36 *	- 64 16 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	04 26 25.76	020 38 24 *	05 00 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	04 26 27.76	020 38 24 *	01 50 00 *	
MLNKEE A WIS	42 58 07 N	271 51 05	294	06 01 39.50	003 47 00 *	36 30 00 *	
MANHTN M KAN	39 12 12 N	263 56 12	366	07 47 02.20	003 45 00 *	47 30 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 47 34.00	001 33 00 *	47 30 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	07 47 42.00	001 42 08 *	50 32 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	07 48 07.50	023 22 00 *	57 50 00 *	
ST COLL P PA	40 44 00 N	282 06 33	393	07 49 09.00	022 51 00 *	40 00 00 *	
FT BELVR VA	38 45 30 N	282 48 42	85	07 49 26.00	000 00 00	83 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 49 55.00	100 00 00	26 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 53 41.88	002 13 00 *	20 29 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 54 13.89	002 13 06 *	13 23 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 54 26.00	090 00 00	48 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 55 01.89	002 14 06 *	04 08 00 *	
CURACAO NWI	12 05 50 N	291 09 46	7	07 58 08.46	001 21 42 *	24 59 00 *	
CURACAO NWI	12 05 50 N	291 09 46	7	08 00 02.28	001 49 06 *	- 02 40 40 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 28 43.00	305 30 00	17 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 29 53.00	302 30 00	26 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 30 46.00	297 00 00	33 00 00	
AMES IOWA	42 01 43 N	266 20 59		09 30 52.00	018 39 53 *	32 58 02 *	
AMES IOWA	42 01 43 N	266 20 59		09 31 27.00	019 18 06 *	20 50 48 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 31 55.00	276 30 00	41 42 00	
MANHTN A KAN	39 15 58 N	263 22 38	408	09 32 13.00	020 26 00 *	41 48 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 32 51.00	256 30 00	45 12 00	
AMES IOWA	42 01 43 N	266 20 59		09 33 13.00	021 03 18 *	10 13 34 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	09 33 29.00	020 18 34 *	07 01 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	09 33 36.30	020 42 00 *	01 50 00 *	
AMES IOWA	42 01 43 N	266 20 59		09 33 38.00	021 24 42 *	05 08 20 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 33 57.00	230 00 00	42 42 00	
OALLAS P TEX	32 51 10 N	263 14 29	172	09 34 49.50	022 27 15 *	32 20 00 *	
OANVILLE ILL	40 08 57 N	272 22 26	189	09 34 53.00	232 00 00	28 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	09 34 59.00	146 30 00	38 06 00	
FT WTH A TEX	32 42 27 N	262 38 14	182	09 36 08.00	022 54 00 *	28 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 36 17.00	160 30 00	30 00 00	
BRYAN TEX	30 38 14 N	263 39 58	92	09 36 46.80	023 37 08 *	13 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	09 37 37.00	168 00 00	22 42 00	
WPALMB B FLA	27 00 00 N	279 51 00		09 37 56.49	020 38 30 *	05 00 00 *	
WPALMB B FLA	27 00 00 N	279 51 00		09 38 12.50	020 43 30 *	02 30 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
26 JULY 1958 (CONT)							
BRYAN TEX	30 38 14 N	263 39 58	92	09 38 19.50	023 43 00 *	25 10 00 *	
WPALMB 8 FLA	27 00 00 N	279 51 00		09 38 28.50	020 51 06 *	01 53 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 52 00.00	023 15 00 *	06 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 54 00.00	000 05 00 *	- 34 00 00 *	
ALMGROO A NM	32 52 24 N	254 02 58	1335	11 16 51.00	019 10 00 *	20 24 00 *	
ALMGROO A NM	32 52 24 N	254 02 58	1335	11 18 25.00	019 52 00 *	11 24 00 *	
EL PASO TEX	31 49 41 N	253 36 36		11 18 43.00	268 30 00	27 00 00	
ALMGROO A NM	32 52 24 N	254 02 58	1335	11 20 17.00	020 50 00 *	- 04 00 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 26 13.00	170 43 12	10 06 36	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 27 13.00	169 19 30	06 50 16	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 28 13.00	168 18 00	03 54 36	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 28 41.00	167 40 12	02 28 12	
KAGOSHIMA J	31 31 34 N	130 31 47	13	18 11 14.00	000 14 00 *	15 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	18 13 34.00	022 48 00 *	- 31 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	18 13 47.00	000 54 00 *	- 12 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 16 50.00	001 22 00 *	- 35 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 17 31.00	001 27 00 *	- 37 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 07	22	19 29 43.60	022 27 00 *	- 22 42 00 *	
AOLAI C AUS	34 44 00 S	136 40 00		20 18 52.00	001 00 00 *	- 47 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 19 57.70	302 00 00	14 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 06.50	302 48 00	15 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 15.30	303 54 00	17 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 23.70	305 24 00	18 34 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 32.30	306 36 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 40.50	308 12 00	22 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 50.10	310 00 00	24 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 58.70	312 00 00	26 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 07.90	314 24 00	28 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 42.90	326 30 00	38 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 51.30	331 12 00	40 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 00.50	337 00 00	43 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 08.50	342 00 00	44 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 16.30	348 36 00	47 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 00.50	027 36 00	50 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 08.50	034 48 00	49 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 16.30	040 42 00	48 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 23.30	045 54 00	46 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 30.90	050 30 00	45 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 36.90	054 00 00	43 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 42.50	056 54 00	42 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 48.30	059 30 00	41 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 53.90	061 00 00	40 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 59.70	063 18 00	38 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 07.10	066 54 00	37 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 12.10	069 12 00	35 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 19.70	070 42 00	34 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 26.10	072 24 00	33 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 32.70	074 00 00	31 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 38.70	075 18 00	30 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 44.90	076 30 00	29 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 51.10	077 48 00	28 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 57.90	078 48 00	27 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 04.90	079 54 00	26 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 12.30	081 00 00	25 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 19.30	082 00 00	24 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 26.42	082 54 00	23 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 39.42	083 48 00	22 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 47.18	085 12 00	20 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 56.42	086 00 00	19 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 02.70	086 36 00	19 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 09.90	087 12 00	18 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 15.10	087 36 00	17 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 22.30	088 12 00	17 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 28.90	088 36 00	16 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 36.50	089 06 00	15 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 43.30	089 36 00	15 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 50.90	090 00 00	14 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 58.30	090 24 00	13 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 05.10	090 48 00	13 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 11.70	091 12 00	12 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
26 JULY 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 19.90	091 36 00	12 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 27.90	092 00 00	11 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 37.10	092 24 00	10 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 47.30	092 48 00	10 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 53.90	093 06 00	09 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 59.90	093 18 00	09 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 07.30	093 36 00	08 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 14.30	093 48 00	08 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 22.30	094 06 00	07 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 30.30	094 18 00	07 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 39.50	094 36 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 48.70	094 54 00	06 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 58.30	095 12 00	05 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 06.50	095 24 00	05 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 15.90	095 42 00	04 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 24.90	096 00 00	04 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 05 05.30	300 06 00	11 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 06 40.70	295 18 00	28 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 32.30	288 24 00	46 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 59.70	278 36 00	56 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 08 03.90	275 24 00	60 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 10.30	185 36 00	70 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 25.30	166 42 00	65 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 34.10	161 06 00	62 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 41.30	156 36 00	59 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 51.90	152 30 00	56 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 56.70	150 24 00	54 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 02.70	149 06 00	52 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 08.10	147 30 00	50 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 16.50	145 42 00	47 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 26.10	143 54 00	44 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 33.30	141 54 00	43 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 42.10	141 48 00	40 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 48.90	141 00 00	39 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 56.70	140 06 00	37 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 03.30	139 42 00	35 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 11.10	139 06 00	34 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 18.50	138 36 00	33 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 26.70	138 00 00	31 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 35.70	137 24 00	30 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 43.50	137 06 00	28 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 51.30	136 42 00	27 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 00.70	136 18 00	26 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 09.70	135 54 00	25 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 18.50	135 30 00	23 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 26.70	135 24 00	22 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 37.30	135 06 00	21 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 46.10	134 48 00	20 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 55.30	134 36 00	19 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 03.90	134 24 00	18 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 12.90	134 12 00	17 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 20.70	134 06 00	17 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 30.10	133 54 00	16 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 38.70	133 48 00	15 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 46.90	133 42 00	15 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 55.10	133 30 00	14 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 04.70	133 24 00	13 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 09.50	133 18 00	12 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 23.10	133 12 00	12 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 32.10	133 06 00	11 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 40.70	133 00 00	11 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 49.50	132 54 00	10 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 58.70	132 48 00	09 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 15 42.70	132 36 00	07 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 15 52.90	132 24 00	06 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 16 01.70	132 24 00	06 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 16 09.10	132 18 00	05 36 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GAT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN K.
27 JULY 1958							
IKARIA IS GR	37 37 00 N	026 13 30	305	01 02 22.00	023 32 36 *	01 18 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 03 28.00	023 59 36 *	- 11 42 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 04 21.00	000 17 36 *	- 18 00 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 04 59.00	000 27 30 *	- 21 36 00 *	
S FERNNOO SP	36 27 42 N	353 47 42	30	02 42 42.62	000 23 24 *	49 05 00 *	
CHELMSFO ENG	51 43 00 N	000 30 00		02 44 04.00	022 57 00 *	- 18 00 00 *	
EL GOLEA ALG	30 34 00 N	002 52 00		02 49 00.00	153 24 00	30 00 00	
EL GOLEA ALG	30 34 00 N	002 52 00		02 51 00.00	153 24 00	19 48 00	
EL GOLEA ALG	30 34 00 N	002 52 00		02 53 00.00	153 24 00	10 54 00	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 01 51.26	025 16 18 *	20 34 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 03 57.30	023 48 00 *	01 54 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 06 35.00	000 35 00 *	- 29 04 48 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 06 42.00	000 25 12 *	- 19 00 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	03 07 06.00	001 24 12 *	- 23 28 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 07 51.10	001 07 00 *	- 46 42 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 07 53.00	001 20 00 *	- 44 30 00 *	
UNION JOHSBG	26 10 55 S	028 04 30	1806	03 08 17.00	001 31 00 *	- 49 18 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 09 46.60	002 39 00 *	- 64 24 00 *	
S FERNNOO SP	36 27 42 N	353 47 42	30	04 28 06.43	019 52 12 *	04 51 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	06 01 57.50	036 12 00	13 20 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	06 04 33.00	030 12 00	21 12 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	06 04 53.00	003 42 00 *	42 00 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	06 07 37.00	069 00 00	14 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 46 49.00	326 00 00	21 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 48 35.00	323 00 00	39 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 49 09.00	326 00 00	49 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 49 50.00	023 57 00 *	49 20 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	07 50 12.00	020 58 30 *	54 20 00 *	
ST COLL PA	40 44 01 N	282 06 33	393	07 53 14.00	023 00 00 *	03 00 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 53 14.00	155 00 00	45 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 53 57.00	153 00 00	37 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 55 08.00	151 36 00	27 42 00	
CURACAO NWI	12 09 04 N	291 03 28	5	08 04 26.05	001 20 00 *	- 29 20 00 *	
CURACAO NWI	12 09 04 N	291 03 28	6	08 04 58.65	001 31 18 *	- 33 31 58 *	
SPOKN A WASH	47 37 37 N	242 38 59	706	09 31 08.00	045 00 00	78 30 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	09 32 35.00	284 06 00	15 30 00	
SPOKN A WASH	47 37 37 N	242 38 59	706	09 33 04.00	000 13 00 *	15 00 00 *	
BTLSVL-A OKL	36 42 18 N	264 03 36	213	09 36 13.50	020 47 00 *	16 48 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	09 38 07.00	000 35 00 *	- 01 00 00 *	
MCALLEN TEX	26 07 48 N	261 51 00		09 40 25.80	150 00 00	81 00 00	
WICHITA KAN	37 41 44 N	262 45 19	413	09 40 43.30	023 32 18 *	- 28 24 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	09 41 10.50	000 02 06 *	27 34 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 43 59.00	224 00 00	21 00 00	
WLNTCK A CAL	37 55 30 N	237 55 30	10	11 18 54.50	020 41 00 *	15 30 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	16 22 40.00	014 47 00 *	76 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	16 26 02.00	003 28 00 *	49 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	18 09 34.00	018 42 00 *	40 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	18 11 40.00	020 43 00 *	15 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	18 11 42.00	270 00 00	68 00 00	
KAGOSHIMA J	31 31 34 N	130 31 47	13	18 13 00.00	022 51 00 *	13 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	18 13 15.00	021 24 00 *	- 03 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	18 13 44.00	023 12 00 *	03 00 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	23 11 35.00	003 47 00 *	53 30 00 *	
28 JULY 1958							
BERL RU GER	52 32 29 N	013 20 58	53	00 55 14.00	016 33 00 *	42 24 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	00 56 26.00	018 43 00 *	39 30 00 *	
COPNGN B OFN	55 42 13 N	012 27 09	10	00 57 48.00	010 23 00 *	20 30 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	00 58 05.00	021 28 00 *	17 00 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	00 58 55.00	022 16 00 *	07 12 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	00 59 43.00	022 48 00 *	- 01 30 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 00 42.00	019 15 36 *	43 06 00 *	
BERL RU GER	52 32 29 N	013 20 58	53	01 00 53.00	023 17 00 *	- 09 30 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 01 08.00	019 50 48 *	38 18 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 01 45.00	020 30 00 *	31 18 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 03 10.80	022 18 36 *	02 48 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 03 56.30	022 28 36 *	- 00 36 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 05 35.30	022 51 36 *	- 07 36 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 06 01.00	023 23 00 *	- 18 36 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 06 16.30	023 35 36 *	- 22 36 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
28 JULY 1958 (CONT)							
IKARIA IS GR	37 37 00 N	026 13 30	305	01 07 00.00	023 41 36 *	+ 25 36 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 07 27.30	023 49 36 *	- 28 54 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 08 02.30	023 57 36 *	- 32 30 00 *	
S FERN00 SP	36 27 42 N	353 47 42	30	02 49 37.57	000 38 48 *	- 21 20 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 05 11.30	022 46 00 *	12 24 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 07 20.90	023 18 00 *	- 19 54 00 *	
UNION JOHNBG	26 10 55 S	028 04 30	1806	03 07 33.90	023 24 00 *	- 20 54 00 *	
UNION JOHNBG	26 10 55 S	028 04 30	1806	03 08 27.80	023 38 00 *	- 34 42 00 *	
UNION JOHNBG	26 10 55 S	028 04 30	1806	03 09 52.90	000 03 00 *	- 50 00 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 10 04.86	073 59 10 *	- 53 07 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 17 34.75	002 01 00 *	- 76 25 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 16 02.62	009 09 00 *	- 74 24 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 39 45.00	067 15 00	41 00 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	07 47 58.40	015 18 00	20 24 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 49 11.50	356 15 00	42 12 00	
AMES IOWA	42 01 43 N	266 20 59		07 50 02.50	000 10 32 *	75 23 27 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 50 05.00	015 15 00	54 42 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	07 50 19.70	027 28 00	39 56 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	07 50 25.00	030 00 00	40 01 12	
AMES IOWA	42 01 43 N	266 20 59		07 50 37.00	000 29 09 *	62 21 24 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 50 38.50	035 45 00	60 18 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	07 50 47.00	040 00 00	42 00 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	07 50 52.00	042 25 00	42 34 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 51 00.00	021 38 00 *	53 00 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	07 51 01.00	046 00 00	43 08 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	07 51 10.00	049 52 00	43 31 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	07 51 19.00	053 44 00	43 43 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 51 22.00	070 15 00	61 06 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 52 06.00	095 45 00	54 54 00	
AMES IOWA	42 01 43 N	266 20 59		07 52 15.00	000 46 30 *	27 29 11 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 52 58.00	112 15 00	45 12 00	
WASH BEHL OC	38 49 13 N	282 59 31		07 53 15.00	020 21 00 *	30 48 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 54 00.00	121 45 00	35 06 00	
WASH BEHL OC	38 49 13 N	282 59 31		07 54 03.00	020 59 00 *	19 54 00 *	
WASH BEHL OC	38 49 13 N	282 59 31		07 54 42.00	021 42 00 *	08 12 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 55 02.00	127 15 00	27 36 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 55 28.39	022 50 24 *	54 57 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 55 44.00	130 15 00	23 18 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 55 44.38	023 05 06 *	50 27 00 *	
WASH BEHL OC	38 49 13 N	282 59 31		07 55 45.00	022 53 00 *	- 14 54 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 56 00.38	023 17 42 *	45 41 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	07 57 12.00	270 00 00	78 00 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	09 34 06.81	301 18 00	39 27 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	09 34 07.20	301 30 00	39 45 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	09 35 38.00	019 26 00 *	62 19 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 35 58.60	001 42 55 *	25 38 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	09 37 15.00	021 52 00 *	39 30 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	09 37 40.00	022 32 00 *	31 43 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	09 38 07.20	020 53 00 *	- 00 45 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	09 39 28.00	023 35 00 *	- 02 00 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	09 39 34.00	023 31 00 *	04 40 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	09 40 58.94	000 06 24 *	- 11 16 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	09 41 02.40	000 07 23 *	- 11 54 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	09 41 06.72	000 08 30 *	12 31 58 *	
S AN RAFB TX	29 32 06 N	261 47 33	232	09 43 09.80	021 06 00 *	24 24 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 10 23.00	018 01 00 *	45 42 00 *	
KONKO J	34 32 31 N	133 37 40	4	18 12 03.00	018 10 00 *	25 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	18 12 05.76	268 00 00	39 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 12 33.00	020 12 00 *	29 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	18 12 40.00	270 00 00	52 00 00	
KAGOSHIMA J	31 31 34 N	130 31 47	13	18 14 08.00	021 39 00 *	09 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	18 14 50.00	021 20 00 *	- 07 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	18 16 24.96	022 44 00 *	- 18 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	18 16 56.00	023 07 00 *	- 22 00 00 *	
29 JULY 1958							
IKARIA IS GR	37 37 00 N	026 13 30	305	01 01 39.40	018 50 48 *	33 48 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 02 08.00	019 14 54 *	29 18 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 02 35.00	019 45 00 *	23 48 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 03 29.00	020 32 18 *	13 00 00 *	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 04 03.00	020 48 30 *	07 24 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 JUL 1958 (CONT)							
IKARIA IS GR	37 37 00 N	026 13 30	305	01 06 20.00	022 23 42 *	- 17 06 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	02 40 07.90	289 46 00	14 20 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 40 25.60	287 09 00	15 51 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 40 46.00	283 42 00	17 28 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 40 57.60	281 26 00	18 23 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 41 12.10	278 47 00	19 31 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 41 27.20	275 48 00	20 38 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 41 40.50	272 56 00	21 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 41 57.90	269 02 00	22 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 42 14.50	265 15 00	23 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 42 30.40	261 26 00	24 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 42 47.10	257 17 00	25 10 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 43 09.50	251 44 00	25 51 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 43 23.30	248 14 00	26 05 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 43 39.00	244 17 00	26 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 43 51.60	241 10 00	26 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 44 06.90	237 27 00	26 07 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 44 24.20	233 18 00	25 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 44 42.10	229 17 00	25 21 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 44 58.60	225 45 00	24 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 45 16.40	220 06 00	24 05 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 45 32.60	219 04 00	23 23 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 45 49.50	216 03 00	22 33 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 46 05.20	213 25 00	21 44 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 46 21.90	210 49 00	20 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 46 38.10	208 27 00	20 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 46 54.90	206 08 00	19 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 47 13.30	203 50 00	18 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 47 29.30	201 58 00	17 07 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 47 47.70	199 58 00	16 04 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 48 05.40	198 08 00	15 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 48 22.00	196 27 00	14 10 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 49 01.80	193 17 00	12 01 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 49 21.40	191 43 00	10 58 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 49 42.10	190 23 00	09 54 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	06 06 33.00	003 28 12 *	47 15 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	06 06 43.00	003 08 00 *	43 00 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	06 09 13.00	078 00 00	32 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 47 52.50	330 15 00	19 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 48 03.40	320 18 00	16 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 49 12.50	333 15 00	32 42 00	
DENV R A COLO	39 44 52 N	255 03 24	1625	07 50 02.00	229 30 00	30 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 50 13.00	339 15 00	47 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 51 06.00	351 45 00	65 06 00	
AMES IOWA	42 01 43 N	266 20 59		07 51 21.00	022 11 25 *	62 00 56 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 51 42.00	022 15 00	76 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 52 26.00	098 15 00	75 42 00	
AMES IOWA	42 01 43 N	266 20 59		07 52 40.00	023 31 19 *	32 52 41 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	07 52 41.10	270 00 00	82 16 48	
CHI CPLN ILL	41 51 58 N	272 23 35	194	07 52 48.00	021 26 03 *	31 59 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	07 52 51.10	001 01 00 *	61 12 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 53 35.00	127 45 00	55 42 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 53 44.00	020 45 00 *	16 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	07 54 53.00	135 45 00	38 18 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 54 53.00	205 00 00	47 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 55 55.00	190 00 00	38 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	07 56 48.00	139 15 00	24 42 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	07 57 24.00	178 00 00	28 00 00	
DENV R A COLO	39 44 52 N	255 03 24	1625	09 36 03.00	271 30 00	43 18 00	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	09 36 13.00	019 40 00 *	42 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 36 26.40	000 52 42 *	30 24 00 *	
DAVIS CAL	38 19 48 N	238 31 12		11 21 41.00	020 10 37 *	01 10 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	14 40 32.19	004 25 12 *	51 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	14 40 49.01	004 11 36 *	49 05 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	14 41 01.00	004 02 36 *	47 43 00 *	
MITAKA J	35 40 20 N	139 32 30	50	14 42 26.00	003 18 00 *	37 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	16 23 46.00	015 59 00 *	55 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	16 25 51.16	001 39 00 *	26 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	16 27 07.42	022 43 48 *	67 22 58 *	
MIZUKAIDO J	36 00 56 N	139 59 18	12	16 27 10.00	000 00 00	60 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 JULY 1958 (CONT)							
KANYAMACHI J	34 03 46 N	135 15 10	40	16 27 18.00	001 39 00 *	62 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	16 27 25.42	023 06 54 *	61 42 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	16 27 30.00	002 52 00 *	52 24 00 *	
MIZUKA100 J	36 00 56 N	139 59 18	12	16 28 04.00	045 00 00	74 00 00	
KAGOSHIMA J	31 31 34 N	130 31 47	13	16 29 58.00	002 10 00 *	21 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	16 30 04.00	144 48 00	48 36 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	16 31 14.01	003 00 00 *	03 34 00 *	
KONKO J	34 32 31 N	133 37 40	4	18 12 09.00	270 00 00	33 00 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	18 13 18.00	019 41 00 *	09 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 13.10	313 54 00	39 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 21.50	316 24 00	42 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 27.70	318 36 00	45 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 38.30	321 18 00	48 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 47.60	326 00 00	53 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 56.70	330 42 00	56 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 07.00	336 46 00	60 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 14.10	345 00 00	64 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 57.90	055 48 00	67 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 04.70	064 18 00	65 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 11.60	070 54 00	62 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 18.80	075 30 00	60 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 25.10	080 42 00	57 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 33.70	085 06 00	54 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 40.50	087 36 00	52 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 46.80	089 54 00	49 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 53.70	091 54 00	47 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 02.50	094 00 00	44 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 10.60	095 12 00	42 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 18.60	096 24 00	40 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 29.80	098 12 00	37 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 40.80	099 36 00	35 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 48.70	100 24 00	33 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 56.70	101 18 00	31 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 04.10	101 54 00	30 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 13.30	102 42 00	28 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 22.70	103 24 00	27 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 29.40	103 54 00	26 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 35.90	104 18 00	25 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 43.80	104 42 00	24 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 51.60	105 06 00	23 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 01.50	105 36 00	22 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 09.60	106 00 00	21 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 16.40	106 18 00	20 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 24.60	103 42 00	19 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 33.30	107 00 00	18 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 40.00	107 12 00	17 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 46.90	107 30 00	17 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 55.40	107 48 00	16 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 02.80	108 00 00	15 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 11.70	108 12 00	15 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 20.60	108 30 00	14 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 30.10	108 42 00	13 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 38.80	109 00 00	12 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 46.70	109 12 00	12 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 54.50	109 24 00	11 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 03.80	109 36 00	11 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 12.30	109 42 00	10 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 21.30	109 54 00	09 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 29.90	110 00 00	09 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 38.60	110 12 00	08 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 47.70	110 24 00	08 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 56.20	110 36 00	07 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 33 06.20	110 48 00	06 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 33 15.20	110 54 00	06 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 33 23.30	110 54 00	06 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 33 31.80	111 00 00	05 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 33 41.60	111 12 00	05 00 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	22 56 53.00	291 24 00	05 24 00	1289
MIL RAO MASS	42 37 03 N	288 30 28	155	22 57 43.20	308 54 00	07 18 00	1188
MIL RAO MASS	42 37 03 N	288 30 28	155	22 58 24.00	324 24 00	08 30 00	1184

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 JULY 1958 (CONT)							
MIL RAO MASS	42 37 03 N	288 30 28	155	22 59 56.00	354 24 00	05 48 00	1465
MIL RAO MASS	42 37 03 N	288 30 28	155	23 01 05.00	008 18 00	02 48 00	1835
BERLN SG GER	52 28 30 N	013 20 30	50	23 10 11.50	011 28 00 *	55 18 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	23 10 55.20	015 45 00	20 41 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 11 11.00	020 15 00	21 25 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 11 22.90	023 47 00	21 56 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 11 32.40	026 40 00	22 15 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 11 40.20	357 48 00	43 12 00	
MEUOON FR	48 46 18 N	002 13 52	162	23 11 47.70	031 11 00	22 37 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 11 57.00	034 02 00	22 47 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 12 06.20	036 41 00	22 52 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 12 22.90	041 29 00	22 46 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 12 32.30	001 43 00 *	74 00 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	23 12 42.30	046 59 00	22 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 12 49.60	040 18 00	53 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 12 58.60	051 16 00	22 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 13 02.90	001 04 00 *	60 12 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	23 13 15.10	055 23 00	21 29 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 13 26.40	058 04 00	21 03 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 13 41.20	061 22 00	20 22 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 13 50.60	000 44 00 *	41 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	23 13 58.60	082 42 00	45 48 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 13 58.70	065 01 00	19 33 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 14 09.70	067 13 00	18 57 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 14 28.10	070 31 00	17 56 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 14 35.70	094 24 00	39 06 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 14 51.80	074 30 00	16 40 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 15 01.70	076 00 00	16 04 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 15 07.50	100 48 00	34 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 15 10.40	077 17 00	15 34 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 15 27.20	079 23 00	14 40 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 15 53.00	082 46 00	13 13 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 15 55.00	107 36 00	27 18 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 16 13.80	085 04 00	12 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 16 22.40	110 24 00	24 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 16 29.90	086 42 00	11 11 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 16 55.30	089 06 00	09 47 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 17 13.50	113 42 00	19 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 17 22.60	091 21 00	08 25 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 17 49.10	093 16 00	07 06 00	
MEUOON FR	48 46 18 N	002 13 52	162	23 18 06.60	094 31 00	06 15 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 18 41.30	096 44 00	04 13 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 18 41.50	116 24 00	11 48 00	
30 JULY 1958							
BERLN SG GER	52 28 30 N	013 20 30	50	00 55 37.80	293 12 00	20 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 22.40	284 30 00	26 42 00	
LNOSTR NETH	52 37 39 N	004 44 58		00 56 53.80	018 03 18 *	36 36 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 15.40	270 24 00	34 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 43.20	260 54 00	37 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 06.90	251 30 00	39 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 41.70	019 32 00 *	15 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 50.10	233 24 00	40 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 59 08.00	226 06 00	40 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 59 26.50	218 54 00	39 00 00	
LNOSTR NETH	52 37 39 N	004 44 58		00 59 33.70	022 09 00 *	06 06 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 59 56.60	202 12 00	36 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 00 17.20	203 24 00	34 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 00 35.80	199 06 00	32 48 00	
MEUOON FR	48 48 18 N	002 13 52	162	01 00 46.20	141 29 00	40 32 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 01 00.20	193 48 00	30 24 00	
MEUOON FR	48 48 18 N	002 13 52	162	01 01 05.40	141 39 00	36 55 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 01 15.00	018 02 54 *	30 36 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	01 01 19.10	141 46 00	34 32 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 01 20.20	190 30 00	28 30 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 01 22.60	018 17 12 *	20 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	01 01 32.60	188 42 00	27 18 00	
MEUOON FR	48 48 18 N	002 13 52	162	01 01 40.10	141 56 00	31 20 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 01 49.20	186 18 00	25 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	01 01 54.10	142 02 00	29 22 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
30 JULY 1958 (CONT)							
BERLN SG GER	52 28 30 N	013 20 30	50	01 02 05.20	184 18 00	24 06 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 02 16.00	018 58 00 *	23 06 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	01 02 24.90	182 00 00	22 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 02 38.60	180 30 00	21 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 02 51.00	179 06 00	20 12 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 03 08.00	019 31 18 *	16 54 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	01 03 11.50	177 36 00	18 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 03 15.50	142 27 00	20 05 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 03 27.40	176 18 00	17 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 03 33.30	142 33 00	18 40 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 03 33.70	019 56 24 *	10 48 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	01 03 42.30	175 18 00	16 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 03 51.70	142 36 00	17 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 03 58.90	174 24 00	15 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	01 04 19.60	173 12 00	14 00 00	
S FERNDO SP	36 27 42 N	353 47 42	30	02 47 06.32	021 29 42 *	02 23 00 *	
JOHNG E S AF	26 08 00 S	028 01 00	1672	03 10 20.20	022 00 00 *	- 39 24 00 *	
JOHNG C S AF	26 07 00 S	028 00 00	1615	03 11 03.60	021 58 00 *	- 47 12 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	06 06 57.40	002 40 00 *	44 50 00 *	
WASH BEHL DC	38 49 13 N	282 59 31		06 08 05.00	002 24 00 *	75 00 00 *	
WASH BEHL DC	38 49 13 N	282 59 31		06 08 36.00	001 54 00 *	63 30 00 *	
WASH BEHL DC	38 49 13 N	282 59 31		06 09 41.00	001 19 00 *	34 12 00 *	
WASH BEHL DC	38 49 13 N	282 59 31		06 11 56.00	001 25 00 *	14 48 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 49 00.70	015 43 00 *	45 30 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	07 50 15.00	025 30 00	37 30 00	
TERRHAUT IND	39 31 38 N	272 36 10	155	07 52 19.00	270 00 00	61 18 00	
MANHTN M KAN	39 12 12 N	263 56 12	366	07 52 37.00	054 03 00	73 02 00	
MANHTN A KAN	39 15 58 N	263 22 38	406	07 52 45.00	031 46 00	68 39 00	
MANHTN M KAN	39 12 12 N	263 56 12	366	07 52 47.00	068 17 00	72 55 00	
MANHTN M KAN	39 12 12 N	263 56 12	366	07 52 54.00	076 18 00	72 23 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	07 52 58.00	026 36 20	22 44 00	
MANHTN M KAN	39 12 12 N	263 56 12	366	07 53 04.00	088 36 00	70 57 00	
MANHTN M KAN	39 12 12 N	263 56 12	366	07 53 12.00	094 55 00	69 37 00	
BRISTOL TENN	36 35 03 N	277 50 31	527	07 54 06.00	270 00 00	50 00 00	
COLL C ALAS	64 51 36 N	212 12 12	137	09 29 35.00	147 36 00	28 18 00	
ALMGDD-GS,NM	32 52 22 N	254 03 05	1339	09 35 55.00	017 47 00 *	43 37 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 36 37.80	023 52 12 *	25 41 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 59 01.10	020 49 18 *	- 31 58 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	10 00 04.00	020 46 18 *	- 40 08 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	10 01 42.30	020 36 30 *	- 51 55 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	11 20 32.60	019 16 03 *	05 04 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	16 27 33.00	023 03 00 *	57 00 00 *	
TAKADA J	37 06 38 N	138 15 22	23	16 28 21.00	022 53 00 *	27 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 09 21.20	358 12 00	26 06 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 10 13.10	016 54 00	31 24 00	
BONN B GER	50 43 45 N	007 05 47	62	23 10 15.80	001 25 00 *	02 18 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 21.30	009 30 00	22 33 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 36.20	013 53 00	23 49 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 10 47.80	002 12 54 *	58 42 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 57.40	020 28 00	25 13 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 11 12.30	041 30 00	33 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 12.90	025 30 00	26 01 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 11 20.50	003 08 18 *	66 54 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 29.20	030 50 00	26 37 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 11 39.00	005 00 00 *	61 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 42.00	035 05 00	26 53 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 11 56.60	002 00 00 *	55 48 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 57.00	040 05 00	27 04 00	
HARROGTE ENG	53 59 00 N	358 26 00		23 12 04.00	001 24 00 *	34 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 12 04.10	060 24 00	30 24 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 12 05.30	000 58 48 *	52 54 00 *	
CHELMSFD ENG	51 43 00 N	000 30 00		23 12 06.00	001 55 00 *	42 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 13.10	045 09 00	26 54 00	
HORSBROG ENG	50 53 00 N	000 15 00		23 12 14.00	055 00 00	28 00 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 12 14.10	001 40 36 *	50 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 31.40	050 50 00	26 33 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 43.40	054 21 00	26 10 00	
BONN B GER	50 43 45 N	007 05 47	62	23 12 44.80	000 41 00 *	30 48 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 12 49.40	072 48 00	26 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 00.40	059 02 00	25 24 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
30 JULY 1958 (CONT)							
BLARICM NETH	52 16 15 N	005 14 53		23 13 05.00	001 10 00 *	34 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 16.00	063 00 00	24 39 00	
HORSBRDG ENG	50 53 00 N	000 15 00		23 13 17.00	072 00 00	25 00 00	
STEENWK NETH	52 47 29 N	006 06 38		23 13 19.30	000 58 00 *	37 48 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 35.80	067 44 00	23 32 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 50.40	070 55 00	22 37 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 13 53.40	084 54 00	21 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 08.50	074 22 00	21 26 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 27.80	077 59 00	20 09 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 37.70	079 37 00	19 29 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 54.10	082 10 00	18 24 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 15 03.40	093 18 00	15 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 10.40	084 27 00	17 19 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 27.70	086 42 00	16 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 37.30	087 56 00	15 34 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 48.30	089 08 00	14 55 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 03.90	090 48 00	13 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 21.10	092 31 00	12 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 30.70	093 19 00	12 20 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 47.70	094 53 00	11 20 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 57.80	095 38 00	10 50 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 17 15.30	097 06 00	09 46 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 17 34.00	098 20 00	08 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 17 51.20	099 35 00	07 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 18 08.10	100 38 00	07 02 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 18 34.60	102 09 00	05 43 00	
31 JULY 1958							
CAMBR U ENG	52 12 51 N	000 05 41	28	00 20 58.50	335 06 00	34 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 21 00.30	335 18 00	34 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 24 31.40	262 42 00	50 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 06.10	318 14 00	12 17 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 53 18.60	310 54 00	18 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 21.20	317 57 00	14 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 36.10	317 34 00	16 29 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 54.10	316 52 00	19 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 03.10	316 17 00	22 42 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 54 11.50	307 24 00	27 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 35.20	315 28 00	26 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 53.80	314 35 00	29 40 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 55 03.20	301 06 00	39 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 11.70	313 45 00	32 20 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 24.20	321 46 00	35 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 38.30	311 46 00	38 38 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 49.70	310 21 00	42 21 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 56 00.50	280 30 00	59 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 03.30	308 57 00	45 31 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 56 06.50	280 30 00	59 18 00	
BILTHVN NETH	52 08 27 N	005 12 46		00 56 20.30	017 48 00 *	35 48 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		00 56 28.40	017 57 34 *	34 54 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 28.70	306 35 00	50 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 46.00	302 35 00	56 07 00	
BILTHVN NETH	52 08 27 N	005 12 46		00 56 46.00	018 28 00 *	32 36 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 56 48.60	242 06 00	68 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 58.90	298 20 00	60 44 00	
BILTHVN NETH	52 08 27 N	005 12 46		00 57 03.40	018 56 54 *	29 48 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	00 57 15.70	289 57 00	66 49 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 57 25.20	200 06 00	65 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 57 31.80	276 23 00	72 09 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 58 06.10	220 25 00	76 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 58 08.50	175 18 00	54 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 58 28.70	191 42 00	71 48 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 58 49.50	165 12 00	44 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 58 55.60	175 24 00	64 40 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 06.80	169 21 00	59 46 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 20.60	165 44 00	55 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 33.10	163 15 00	52 22 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	00 59 41.10	159 06 00	35 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 42.40	161 54 00	49 58 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 54.60	160 11 00	46 59 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
31 JULY 1958 (CONT)							
MEUDON FR	48 48 18 N	002 13 52	162	01 00 03.10	158 46 00	44 01 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 00 20.80	157 40 00	41 23 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 00 29.70	157 00 00	39 42 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	01 00 35.90	155 18 00	27 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 00 44.20	156 04 00	37 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 00 54.20	155 30 00	35 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	01 01 21.40	154 17 00	31 13 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	01 01 22.40	154 24 00	22 00 00	
IKARIA IS GR	37 37 00 N	026 13 30	305	01 01 22.60	018 17 12 *	20 18 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	02 40 34.50	279 02 00	12 05 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 40 54.10	275 52 00	13 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 41 12.10	272 50 00	13 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 41 29.50	269 48 00	14 40 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 42 29.80	258 51 00	16 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	02 42 49.70	255 03 00	16 48 00	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 12 33.21	020 47 30 *	- 63 10 00 *	
WASH BEHL OC	38 49 13 N	282 59 31		06 02 33.00	011 52 00 *	72 18 00 *	
WASH BEHL OC	38 49 13 N	282 59 31		06 06 41.00	004 00 00 *	89 00 00 *	
WASH BEHL DC	38 49 13 N	282 59 31		06 07 38.00	000 26 00 *	74 12 00 *	
WASH BEHL DC	38 49 13 N	282 59 31		06 10 04.00	000 30 00 *	27 24 00 *	
WASH BEHL OC	38 49 13 N	282 59 31		07 08 14.00	000 28 00 *	59 48 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 51 08.10	002 14 33 *	23 26 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	07 52 02.40	088 48 00	48 30 00	
WASH BEHL OC	38 49 13 N	282 59 31		07 52 32.00	018 27 00 *	20 00 00 *	
AREOUIPA PER	16 23 05 S	288 27 55	2377	09 00 17.70	020 20 00 *	- 44 32 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	09 34 58.20	271 18 00	26 30 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 35 10.30	022 13 23 *	37 29 00 *	
DAVIS CAL	38 19 48 N	238 31 12		11 17 52.80	018 06 48 *	14 18 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	11 53 18.60	130 54 00	18 30 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	11 54 11.50	127 24 00	27 36 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	16 23 57.00	015 20 00 *	73 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	16 24 43.00	017 13 48 *	58 36 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	16 24 52.70	017 31 00 *	58 14 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	16 25 00.00	017 43 54 *	57 51 00 *	
MITAKA J	35 40 20 N	139 32 30	50	16 26 03.00	309 42 00	57 12 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	21 14 07.00	035 36 00	07 12 00	1315
BERLN SG GER	52 28 30 N	013 20 30	50	21 24 42.80	014 45 00	22 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 25 08.60	022 57 00	23 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 43.90	310 00 00	63 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 25 44.10	003 15 00 *	51 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 52.20	312 54 00	68 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 25 52.30	037 09 00	23 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 00.30	315 24 00	72 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 26 47.30	052 39 00	21 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 52.30	105 24 00	73 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 00.20	110 00 00	69 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 10.40	112 00 00	65 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 27 11.60	058 21 00	19 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 18.60	113 18 00	61 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 26.20	114 18 00	57 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 33.20	115 06 00	54 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 27 37.10	063 39 00	18 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 40.10	115 42 00	52 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 48.40	116 18 00	49 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 56.80	116 42 00	46 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 28 05.40	068 33 00	16 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 06.20	117 12 00	43 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 14.30	117 30 00	41 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 22.00	117 48 00	39 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 30.60	118 00 00	37 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 28 31.00	072 27 00	15 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 39.00	118 12 00	35 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 49.00	118 30 00	33 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 28 51.00	075 09 00	13 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 57.80	118 42 00	31 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 07.30	118 54 00	30 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 17.00	119 00 00	28 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 26.30	119 12 00	27 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 33.90	119 18 00	25 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 45.20	119 30 00	24 18 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
31 JULY 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 00.20	119 42 00	22 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 13.70	119 54 00	20 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 24.50	120 00 00	19 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 38.90	120 06 00	18 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 51.50	120 12 00	17 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 07.40	120 24 00	15 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 17.30	120 24 00	14 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 26.40	120 30 00	14 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 35.10	120 36 00	13 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 44.10	120 42 00	12 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 32 00.80	120 48 00	11 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 56.40	001 06 00	23 21 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 20.40	007 47 00	26 01 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 28.90	263 36 00	28 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 31.10	011 05 00	27 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 36.50	261 12 00	29 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 45.60	015 51 00	28 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 46.70	257 42 00	31 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 56.90	254 06 00	32 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 58.40	020 13 00	29 29 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 06.20	250 42 00	32 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 15.20	026 11 00	30 37 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 16.80	246 36 00	33 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 30.30	240 48 00	34 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 31.10	032 10 00	31 27 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 41.50	236 12 00	35 06 00	
BLARICH NETH	52 16 15 N	005 14 53		23 10 47.30	001 05 42 *	03 12 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 47.50	229 36 00	35 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 48.20	038 28 00	31 49 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 00.20	042 58 00	31 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 13.50	047 47 00	31 44 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 14.90	222 30 00	35 12 00	
FASSBURG GER	52 54 00 N	010 11 00		23 11 15.00	023 09 00 *	60 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 23.50	051 15 00	31 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 31.10	216 12 00	34 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 39.10	056 32 00	30 55 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 41.90	212 18 00	34 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 49.60	059 53 00	30 25 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 51.30	209 06 00	33 42 00	
MEUDON FR	48 48 16 N	002 13 52	162	23 12 00.30	063 08 00	29 51 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 00.80	206 00 00	32 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 10.80	202 48 00	32 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 15.90	067 35 00	28 47 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 19.50	200 30 00	31 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 26.10	070 17 00	28 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 29.80	197 30 00	30 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 36.70	072 55 00	27 17 00	
OLST NETH	52 19 51 N	006 06 28		23 12 40.40	001 20 42 *	47 42 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 42.70	194 12 00	29 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 51.30	076 14 00	26 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 52.60	191 54 00	28 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 02.30	078 35 00	25 55 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 04.20	189 24 00	27 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 17.00	081 32 00	24 09 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 17.40	186 48 00	26 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 31.10	184 18 00	24 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 34.90	084 42 00	22 44 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 44.70	182 06 00	23 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 44.80	086 18 00	21 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 54.70	087 52 00	21 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 02.80	179 30 00	21 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 03.30	089 07 00	20 31 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 12.00	090 18 00	19 50 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 13.60	178 06 00	21 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 20.80	091 27 00	19 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 21.90	177 06 00	20 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 30.20	092 38 00	18 29 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 40.90	093 52 00	17 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 14 46.50	127 45 44	30 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 14 55.60	095 27 00	16 41 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
31 JULY 1958 (CONT)							
BERLN SG GER	52 28 30 N	013 20 30	50	23 14 58.90	128 03 44	28 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 06.10	096 36 00	15 57 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 15 14.10	128 51 44	26 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 15.40	097 30 00	15 15 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 15 26.30	129 15 44	25 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 31.30	098 56 00	14 15 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 15 37.60	129 45 44	23 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 47.10	100 16 00	13 13 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 15 49.30	130 03 44	22 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 15 58.60	101 10 00	12 31 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 16 06.30	130 27 44	20 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 15.10	102 26 00	11 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 16 17.50	130 39 44	19 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 16 31.10	131 03 44	18 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 33.50	103 39 00	10 26 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 16 45.00	131 21 44	17 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 16 59.30	105 27 00	08 54 00	
1 AUG 1958							
MEUDON FR	48 48 18 N	002 13 52	162	00 53 02.80	312 09 00	18 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 20.70	310 57 00	21 15 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 34.60	309 54 00	23 28 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 47.40	308 45 00	25 38 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 00.90	307 25 00	28 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 14.50	305 49 00	30 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 24.70	304 25 00	32 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 36.50	302 40 00	35 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 52.10	299 52 00	39 10 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 11.40	295 20 00	43 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 23.90	291 54 00	47 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 55 40.50	265 55 00	24 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 40.80	286 01 00	51 31 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 51.80	280 59 00	54 24 00	
BILTHVN NETH	52 08 27 N	005 12 46		00 55 53.60	018 38 00 *	23 12 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 06.50	261 37 00	25 49 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 04.60	274 02 00	57 24 00	
BILTHVN NETH	52 08 27 N	005 12 46		00 56 11.20	019 01 30 *	00 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 12.40	257 19 00	26 49 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 25.10	253 49 00	27 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 25.70	259 25 00	61 32 00	
BILTHVN NETH	52 08 27 N	005 12 46		00 56 28.60	019 22 42 *	17 06 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 37.20	250 19 00	27 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 42.60	244 53 00	63 25 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 56 48.10	247 19 00	28 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 57.40	231 29 00	63 33 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 02.90	243 01 00	28 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 57 13.30	217 45 00	62 29 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 15.80	239 13 00	28 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 27.50	235 01 00	28 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 57 27.50	207 20 00	60 28 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 39.70	232 37 00	28 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 57 40.00	199 35 00	58 14 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 57 53.30	229 25 00	27 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 57 57.10	191 16 00	54 45 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 07.60	225 55 00	27 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 18.30	223 19 00	27 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 58 24.80	181 45 00	48 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 28.60	220 55 00	26 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 58 36.40	178 48 00	46 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 39.70	218 25 00	26 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 58 50.00	175 54 00	43 55 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 58 50.80	216 07 00	25 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 59 03.70	213 31 00	24 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 04.10	173 24 00	41 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 59 17.30	211 07 00	24 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 18.50	171 16 00	38 47 00	
BERLN SG GER	52 28 30 N	013 20 30	50	00 59 29.00	208 57 00	23 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 32.40	169 29 00	36 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 59 44.50	168 11 00	34 39 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	02 32 51.00	276 18 00	20 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1 AUG 1958 (CONT)							
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 07 17.80	019 17 36 *	- 57 31 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	03 11 01.00	020 26 00 *	- 57 12 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 11 11.60	020 17 00 *	- 58 19 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	03 12 23.36	017 31 54 *	- 72 54 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	04 19 37.80	047 00 00	09 00 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	06 00 21.50	043 45 00	13 15 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	06 03 34.27	016 45 01 *	74 24 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	06 04 01.50	027 00 00	40 45 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	06 05 04.80	001 41 41 *	55 11 30 *	
BALTIMORE MO	39 24 28 N	283 24 35	144	06 06 15.00	000 00 00	61 00 00	
SPOKN A WASH	47 37 37 N	242 38 59	706	07 42 42.00	011 00 00 *	56 30 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 46 03.00	002 20 30 *	50 00 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	07 48 02.00	345 30 00	31 30 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 49 04.60	002 09 16 *	30 08 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 50 11.80	255 00 00	37 45 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	09 30 43.00	018 25 20 *	37 30 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 32 06.90	018 42 07 *	53 49 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	13 07 29.80	003 56 00	29 02 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	16 23 39.00	018 04 00 *	58 00 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	21 10 54.91	023 54 00	15 18 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	21 12 59.32	030 12 00	02 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 24.80	300 54 00	15 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 34.00	300 42 00	17 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 41.60	300 30 00	18 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 51.50	300 30 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 59.00	300 24 00	21 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 08.20	300 12 00	23 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 17.30	300 18 00	25 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 26.50	300 06 00	28 05 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 34.10	299 54 00	30 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 41.60	299 48 00	32 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 50.20	299 36 00	34 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 57.80	299 24 00	37 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 05.60	299 00 00	39 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 12.80	298 48 00	42 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 21.30	298 24 00	45 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 31.40	297 42 00	50 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 38.20	297 12 00	53 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 48.00	296 06 00	58 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 54.50	295 12 00	61 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 07.70	293 24 00	66 17 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 10.90	290 48 00	71 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 19.40	286 18 00	75 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 37.00	269 12 00	82 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 07.50	135 30 00	78 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 29.50	131 00 00	63 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 36.20	130 30 00	60 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 44.20	129 48 00	57 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 52.60	129 00 00	53 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 00.00	128 36 00	51 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 07.60	128 12 00	48 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 16.20	127 42 00	45 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 23.00	127 30 00	43 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 33.40	127 12 00	41 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 41.20	127 00 00	39 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 48.80	126 48 00	37 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 25 57.10	126 36 00	35 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 05.40	126 30 00	33 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 13.60	126 24 00	32 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 24.00	126 18 00	30 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 34.50	126 12 00	28 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 44.50	126 06 00	27 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 26 53.40	126 00 00	25 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 02.60	125 54 00	24 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 13.20	125 54 00	23 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 23.40	125 48 00	22 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 32.60	125 48 00	21 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 42.20	125 42 00	19 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 49.80	125 42 00	19 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 27 57.40	125 42 00	18 24 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1 AUG 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 07.10	125 42 00	17 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 15.00	125 36 00	16 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 26.00	125 36 00	15 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 35.20	125 36 00	15 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 43.90	125 36 00	14 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 28 52.90	125 36 00	13 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 03.00	125 36 00	12 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 13.60	125 36 00	12 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 23.60	125 36 00	11 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 35.90	125 36 00	10 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 46.40	125 36 00	09 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 29 56.60	125 36 00	09 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 06.80	125 36 00	08 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 19.40	125 36 00	07 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 29.40	125 36 00	07 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 38.70	125 36 00	06 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 49.50	125 36 00	06 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 30 58.00	125 36 00	05 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 07.80	125 36 00	05 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 31 16.80	125 36 00	04 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 13.70	346 09 00	18 45 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 39.40	351 06 00	22 08 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 06 55.10	273 18 00	21 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 58.10	355 23 00	24 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 03.50	271 06 00	22 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 11.30	269 06 00	23 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 07 13.20	359 08 00	26 43 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 19.50	266 54 00	24 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 28.70	264 24 00	25 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 36.50	262 12 00	26 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 45.40	259 30 00	27 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 07 48.80	010 02 00	31 26 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 07 54.30	256 36 00	27 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 07 58.80	013 32 00	32 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 08 06.00	252 48 00	28 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 12.70	019 06 00	34 15 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 08 15.30	249 36 00	29 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 08 23.10	247 00 00	29 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 26.10	024 06 00	35 23 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 08 33.30	243 24 00	30 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 41.00	030 12 00	36 27 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 08 43.30	239 42 00	30 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 08 53.00	236 24 00	31 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 57.00	037 11 00	37 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 01.10	233 18 00	31 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 08.00	230 48 00	31 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 08.20	042 00 00	37 27 00	
BLARICM NETH	52 16 15 N	005 14 53		23 09 15.40	000 09 00 *	56 48 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 16.30	227 54 00	31 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 22.80	048 08 00	37 22 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 24.60	225 12 00	31 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 33.60	052 38 00	37 08 00	
BATTERSE ENG	51 28 00 N	359 51 00		23 09 34.00	000 54 00 *	38 06 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 35.10	221 36 00	30 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 43.70	218 42 00	30 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 52.00	059 49 00	36 17 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 09 55.50	215 00 00	30 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 05.30	212 06 00	29 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 10.20	066 17 00	35 08 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 15.70	209 06 00	29 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 24.50	206 42 00	28 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 27.20	071 48 00	33 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 33.50	204 24 00	27 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 42.40	202 06 00	27 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 42.70	076 16 00	32 13 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 10 50.80	200 12 00	26 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 10 54.70	079 26 00	31 11 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 02.40	197 42 00	25 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 05.00	081 57 00	30 09 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 16.40	194 48 00	24 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SL NT RANGE IN KM
1 AUG 1958 (CONT)							
MEUDON FR	48 48 18 N	002 13 52	162	23 11 20.20	085 13 00	28 38 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 24.40	193 12 00	24 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 35.60	191 18 00	23 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 38.80	088 54 00	26 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 44.80	189 42 00	22 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 11 53.30	188 24 00	21 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 11 54.70	091 41 00	25 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 02.60	187 00 00	21 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 12.40	094 26 00	23 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 13.40	185 24 00	20 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 30.10	096 51 00	22 10 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 37.30	182 24 00	18 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 12 47.40	181 12 00	17 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 12 47.70	099 01 00	20 37 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 04.30	179 24 00	16 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 04.60	100 51 00	19 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 17.00	102 06 00	18 14 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 17.10	178 12 00	15 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 26.30	177 18 00	15 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 31.60	103 27 00	17 09 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 41.00	176 06 00	14 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 43.30	104 27 00	16 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 13 52.50	175 12 00	13 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 13 58.60	105 43 00	15 10 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 14 04.30	174 18 00	12 30 00	
2 AUG 1958							
MEUDON FR	48 48 18 N	002 13 52	162	00 50 06.00	312 03 00	10 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 50 23.40	310 59 00	12 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 50 33.50	310 20 00	13 38 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 50 44.00	309 34 00	14 46 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 50 59.20	308 27 00	16 39 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 51 14.20	307 08 00	18 39 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 51 30.10	305 35 00	20 51 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 51 43.00	304 10 00	22 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 51 53.90	302 51 00	24 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 52 07.00	301 05 00	26 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 52 18.10	299 25 00	28 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 52 31.50	297 08 00	30 45 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 52 44.70	294 40 00	33 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 01.10	290 59 00	36 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 12.30	288 04 00	38 26 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 27.40	283 34 00	41 29 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 42.60	278 20 00	44 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 57.60	272 09 00	47 10 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 25.30	263 40 00	49 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 35.60	252 34 00	52 07 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 54 48.80	244 26 00	52 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 09.90	232 02 00	53 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 24.80	223 30 00	52 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 38.90	216 01 00	51 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 55 51.90	209 51 00	49 43 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 03.10	205 10 00	48 15 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 18.10	199 38 00	46 09 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 32.60	195 01 00	43 59 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 56 48.20	090 48 00	41 31 00	
N CANTON A O	40 55 54 N	278 32 40	366	04 20 37.50	001 48 00 *	23 54 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	06 00 54.00	337 00 00	30 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	06 02 22.00	348 00 00	49 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	06 02 33.70	038 18 00	52 15 00	
N CANTON A O	40 55 54 N	278 32 40	366	06 04 07.00	022 40 00 *	52 00 00 *	
SPOKN A WASH	47 37 37 N	242 38 59	706	07 44 01.50	045 00 00	61 30 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	07 45 15.00	338 30 00	41 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 46 14.40	002 06 28 *	38 58 00 *	
KANCITY MO	39 02 02 N	265 25 08	259	07 46 39.00	018 20 00 *	39 00 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 47 21.50	266 12 00	29 15 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	09 28 24.00	017 57 00 *	31 24 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 29 43.60	017 57 12 *	45 30 00 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	09 29 47.00	284 00 00	14 00 00	
KAGOSHIMA J	31 31 34 N	130 31 47	13	16 19 55.00	015 13 00 *	73 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
2 AUG 1958 (CONT)							
BERLN SG GER	52 28 30 N	013 20 30	50	21 19 36.90	335 36 00	23 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 20 03.70	004 12 00	26 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 20 21.40	015 20 00 *	56 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 20 30.50	013 48 00	28 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 20 47.40	019 54 00	29 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 21 13.20	029 54 00	30 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 21 38.40	039 42 00	30 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 22 03.40	048 36 00	29 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 22 34.10	058 06 00	27 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 22 41.30	001 22 00 *	38 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 23 00.10	065 06 00	25 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 23 17.10	001 10 00 *	32 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 23 28.10	071 24 00	23 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 23 48.30	075 18 00	21 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 24 20.80	080 30 00	19 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 24 42.50	083 30 00	17 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 25 31.60	089 00 00	14 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 25 40.80	086 42 00	15 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 25 48.60	090 30 00	13 00 00	
FASSBURG GER	52 54 00 N	010 11 00		23 03 00.00	013 25 00 *	54 18 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 03 54.10	345 12 00	22 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 04 01.50	313 42 00	22 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 04 10.90	348 30 00	24 52 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 04 24.40	313 12 00	27 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 04 30.00	352 47 00	27 47 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 04 45.80	013 51 00 *	49 42 00 *	
SEAFORD ENG	50 48 00 N	000 06 00		23 04 46.00	000 00 00	40 00 00	
FASSBURG GER	52 54 00 N	010 11 00		23 04 51.00	017 08 00 *	66 12 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 04 55.80	359 23 00	32 05 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 05 02.97	013 06 29 *	79 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	23 05 04.10	014 28 00 *	52 36 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		23 05 11.61	013 54 54 *	82 18 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 12.70	004 43 00	34 53 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 05 13.80	310 36 00	39 06 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 05 23.71	015 27 47 *	84 42 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		23 05 28.89	018 28 05 *	85 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 30.20	011 18 00	37 59 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 05 35.80	308 30 00	45 30 00	
BILTHVN NETH	52 08 27 N	005 12 46		23 05 37.53	020 31 54 *	82 48 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		23 05 47.04	021 38 48 *	79 24 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 48.00	018 42 00	40 26 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 05 50.00	306 42 00	50 30 00	
BATTERSE ENG	51 28 00 N	359 51 00		23 05 56.40	000 57 00 *	60 24 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	23 06 06.10	303 64 00	56 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 07.30	027 29 00	42 12 00	
CHELMSFO ENG	51 43 00 N	000 30 00		23 06 11.00	000 30 00 *	55 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	23 06 20.50	299 42 00	62 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 22.70	035 21 00	43 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 06 33.50	294 18 00	67 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 43.10	045 54 00	43 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 06 52.10	278 48 00	75 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 58.10	053 21 00	43 37 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 07 05.00	019 37 30 *	48 54 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 07 13.70	050 47 00	42 50 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 07 15.80	228 48 00	80 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 07 33.80	069 17 00	41 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 07 42.00	177 30 00	74 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 07 51.30	075 49 00	39 22 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 07 57.40	166 12 00	68 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 06.80	080 49 00	37 38 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 08 13.70	159 42 00	62 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 24.80	086 03 00	35 25 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 08 30.00	155 54 00	57 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 43.30	090 34 00	33 10 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 08 47.80	153 24 00	52 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 08 54.10	092 52 00	31 52 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 09 03.60	151 30 00	47 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 07.50	095 29 00	30 17 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 09 20.80	097 45 00	28 47 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 09 30.50	022 17 00 *	07 30 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
2 AUG 1958 (CONT)							
MEUOON FR	48 48 18 N	002 13 52	162	23 09 35.90	100 09 00	27 07 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 09 45.80	148 36 00	38 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 09 52.90	149 42 00	43 12 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 09 54.90	102 42 00	25 08 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 10 01.30	148 00 00	35 24 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 10 05.80	104 00 00	24 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 10 16.30	147 30 00	33 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 10 19.40	105 34 00	22 43 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 10 31.00	106 45 00	21 39 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 10 38.10	146 42 00	29 48 00	
MEUOON FR	48 48 18 N	002 13 52	162	23 10 46.90	108 14 00	20 11 00	
3 AUG 1958							
MEUOON FR	48 48 18 N	002 13 52	162	00 41 10.60	296 33 00	15 35 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 49 49.40	292 21 00	27 36 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 50 06.70	288 48 00	30 14 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 50 24.40	294 35 00	32 54 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 50 35.00	281 45 00	34 34 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 50 50.40	277 14 00	30 50 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 51 04.00	272 49 00	38 41 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 51 17.40	267 56 00	40 25 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 51 32.40	262 06 00	42 07 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 51 43.90	257 16 00	43 14 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 51 58.40	250 57 00	44 11 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 52 21.20	245 04 00	44 48 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 52 23.90	239 21 00	45 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 52 37.10	233 22 00	44 55 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 52 49.00	227 55 00	44 30 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 53 02.20	222 40 00	43 50 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 53 15.90	227 22 00	42 48 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	04 13 22.30	031 21 00	13 45 00	
WASH BEHL OC	38 49 13 N	282 59 31		04 17 06.72	002 16 59 *	39 30 00 *	
WASH BEHL OC	38 49 13 N	282 59 31		04 18 07.20	001 51 00 *	31 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 56 38.68	352 12 00	23 18 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	05 57 05.00	013 56 36 *	49 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 57 32.25	003 48 00	30 18 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	05 57 38.04	030 15 00	17 18 00	
AMES IOWA	42 01 43 N	266 20 59		05 57 49.00	006 02 06 *	77 46 22 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 58 33.60	021 48 00	38 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 59 19.39	040 48 00	42 48 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	05 59 34.60	023 01 00 *	74 20 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 59 44.44	052 00 00	43 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	05 59 50.50	033 55 00	62 00 00	
AMES IOWA	42 01 43 N	266 20 59		06 00 01.00	001 02 36 *	47 31 46 *	
AMES A IOWA	42 01 59 N	266 22 00	305	06 00 04.32	059 16 00	43 18 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	06 00 09.50	023 19 01 *	61 55 01 *	
AMES A IOWA	42 01 59 N	266 22 00	305	06 00 56.16	078 18 00	41 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 40 55.00	001 16 00 *	60 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 42 18.80	002 27 03 *	55 20 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 43 12.50	081 25 00	19 45 00	
KANCITY MO	39 02 02 N	265 25 08	259	07 43 14.00	016 28 26 *	21 34 47 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	07 43 18.50	017 03 22 *	23 05 48 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	07 43 42.00	322 45 00	66 15 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	09 25 17.00	017 21 00 *	25 30 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 26 31.70	017 23 12 *	39 17 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 52.20	297 42 00	18 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 07.20	296 48 00	21 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 23.90	295 36 00	24 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 38.70	294 18 00	27 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 54.60	292 42 00	31 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 04.60	291 24 00	34 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 17.50	289 18 00	38 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 30.20	286 48 00	42 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 16 34.90	357 42 00	26 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 41.90	283 54 00	46 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 55.40	279 18 00	51 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 06.10	274 24 00	55 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 17.60	267 36 00	60 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 17 18.60	013 00 00	31 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 31.30	265 30 00	65 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
3 AUG 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 40.20	244 54 00	68 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 50.00	221 54 00	69 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 17 50.80	026 36 00	33 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 02.70	209 54 00	70 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 15.70	190 36 00	68 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 31.50	174 00 00	63 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 43.90	165 30 00	60 00 00	
GRONNGN NETH	53 12 18 N	006 34 01		21 18 46.65	020 10 18 *	35 24 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 57.60	158 48 00	55 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 19 10.80	058 00 00	31 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 19 12.70	153 42 00	50 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 19 27.30	150 12 00	46 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 19 46.10	146 42 00	41 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 19 56.12	145 24 00	39 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 12.30	143 36 00	35 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 27.30	142 18 00	33 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 20 34.00	078 54 00	24 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 20 47.40	140 42 00	29 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 05.50	139 48 00	27 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 24.50	138 54 00	24 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 21 25.50	087 12 00	19 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 21 49.50	127 54 00	21 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 22 00.50	091 24 00	16 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 06.30	137 24 00	19 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 25.10	136 54 00	17 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 22 26.90	094 00 00	15 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 22 51.40	136 24 00	15 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 22 53.10	096 12 00	13 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 06.40	126 06 00	14 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 23 44.50	135 24 00	11 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 24 12.70	135 06 00	09 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 59 53.70	203 06 00	12 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 08.30	280 24 00	14 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 29.90	276 30 00	16 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 42.90	273 48 00	17 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 00 57.80	270 42 00	18 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 01 06.80	346 41 00	28 55 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 01 09.70	268 00 00	19 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 01 23.90	264 36 00	20 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 01 30.30	352 11 00	33 41 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 01 38.30	261 00 00	21 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 01 41.00	354 54 00	35 37 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 01 53.40	256 54 00	22 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 01 59.20	000 40 00	39 17 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 02 12.70	251 42 00	23 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 02 14.90	006 37 00	42 26 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 02 27.80	247 30 00	23 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 02 32.70	014 39 00	45 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 02 42.20	243 24 00	24 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 02 56.50	027 26 00	49 07 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 02 57.40	239 12 00	24 36 00	
FASSBURG GER	52 54 00 N	010 11 00		23 03 00.00	019 07 00 *	51 24 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	23 03 17.10	040 01 00	50 47 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 03 22.90	232 00 00	24 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 03 34.60	051 02 00	51 01 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 03 50.10	227 18 00	24 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 03 50.60	060 36 00	50 20 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 04 01.70	221 42 00	24 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 04 08.30	070 21 00	48 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 04 20.80	076 14 00	47 05 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 04 24.20	216 24 00	23 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 04 37.10	082 59 00	44 50 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 04 40.50	212 42 00	22 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 04 53.20	088 38 00	42 25 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 04 59.70	208 42 00	21 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 04.90	092 10 00	40 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 18.50	095 49 00	38 31 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 05 19.40	205 06 00	20 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 30.80	098 38 00	36 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 46.20	101 42 00	34 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
3 AUG 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 05 47.70	200 18 00	18 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 05 55.80	103 25 00	33 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 06 04.30	197 48 00	18 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 05.00	104 52 00	31 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 15.00	106 21 00	30 36 00	
AGEN FRANCE	44 10 36 N	000 35 42		23 06 25.00	070 00 00	32 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 06 27.40	194 42 00	16 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 28.20	108 12 00	28 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 41.30	109 43 00	27 23 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	23 06 46.60	192 18 00	15 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	23 06 58.40	111 32 00	25 27 00	
4 AUG 1958							
AGEN FRANCE	44 10 36 N	000 35 42		00 50 31.00	260 12 00	52 06 00	
LNDSTRT NETH	52 37 39 N	004 44 58		00 52 28.41	019 23 40 *	03 06 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	04 11 17.00	002 45 48 *	56 54 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 52 24.67	343 00 00	18 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 53 37.24	353 00 00	29 12 00	
CHRCML B CAN	57 56 12 N	265 49 33		05 53 53.66	180 00 00	51 00 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	05 53 59.40	027 30 00	20 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 54 21.31	002 00 00	36 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 55 06.24	015 00 00	44 18 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	05 55 13.00	016 02 30 *	47 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 55 40.80	032 30 00	48 54 00	
AMES IOWA	42 01 43 N	266 20 59		05 56 06.00	000 23 58 *	57 54 46 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 56 24.00	057 30 00	52 18 00	
AMES IOWA	42 01 43 N	266 20 59		05 56 41.00	000 12 51 *	45 51 29 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	05 56 44.50	021 58 10 *	57 30 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	05 57 17.00	097 00 00	71 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 37 31.50	000 10 40 *	58 24 00 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	07 39 03.00	314 15 00	42 30 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 39 54.80	001 09 57 *	41 24 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	07 40 43.70	279 00 00	17 30 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	09 21 20.00	020 08 00 *	24 30 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 22 30.10	016 51 55 *	35 14 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 12 29.74	018 23 36 *	- 57 51 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 12 45.93	018 12 54 *	- 57 51 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	20 13 02.12	018 02 24 *	- 57 51 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 10 33.90	297 30 00	15 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 10 49.00	296 24 00	17 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 11 03.80	295 18 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 11 23.80	293 36 00	23 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 11 44.50	291 12 00	28 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 12 01.00	288 42 00	32 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 12 16.70	285 54 00	36 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 12 20.20	350 00 00	26 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 12 32.00	282 00 00	41 00 00	
CHELMFSD ENG	51 43 00 N	000 30 00		21 12 35.00	003 05 00 *	53 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 12 49.60	276 24 00	46 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 12 53.60	000 24 00	30 48 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	21 13 00.50	024 24 00	07 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 02.90	270 36 00	51 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 13.30	264 42 00	54 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 13 18.30	009 48 00	34 12 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	21 13 19.00	027 06 00	07 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 20.20	260 12 00	56 24 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	21 13 25.00	028 30 00	07 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 30.00	252 30 00	59 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 36.90	246 06 30	61 00 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	21 13 43.50	031 30 00	07 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 48.10	234 36 00	63 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 13 51.40	024 12 00	37 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 13 58.80	222 12 00	63 48 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	21 14 00.50	033 00 00	07 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 06.90	213 06 00	63 42 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	21 14 09.50	034 48 00	07 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 15.30	035 36 00	38 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 16.40	202 24 00	62 54 00	
PIC MID I FR	42 56 12 N	000 08 32	2862	21 14 19.50	036 54 00	07 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 22.60	001 55 00 *	59 30 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
4 AUG 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 27.20	191 54 00	61 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 14 31.50	038 30 00	07 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 36.10	184 36 00	59 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 39.60	046 48 00	38 50 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 14 41.50	040 18 00	07 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 49.10	001 07 00 *	51 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 14 50.50	175 12 00	55 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 14 53.50	041 42 00	07 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 15 03.50	043 30 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 05.70	167 54 00	51 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 15 06.00	057 54 00	36 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 15 14.00	044 48 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 18.80	163 12 00	48 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 15 31.00	047 00 00	06 24 00	
BERLN SG GER	52 26 30 N	013 20 30	50	21 15 32.00	067 00 00	34 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 34.20	158 48 00	44 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 15 37.00	048 24 00	06 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 15 44.10	156 36 00	41 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 15 46.00	049 36 00	06 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 15 53.40	073 30 00	31 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 15 56.50	051 06 00	06 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 04.40	152 54 00	37 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 16 06.50	053 06 00	05 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 16 07.30	000 20 00 *	31 12 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 16 15.20	078 48 00	29 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 23.00	150 36 00	34 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 16 23.50	054 48 00	05 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 16 32.50	056 00 00	05 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 36.20	148 54 00	31 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 16 44.00	057 12 00	05 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 16 53.10	086 36 00	25 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 16 53.50	058 18 00	04 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 16 55.20	147 18 00	28 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 17 02.00	059 06 00	04 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 13.20	145 54 00	26 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 17 19.00	090 36 00	23 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 17 19.50	060 24 00	04 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 26.00	145 06 00	24 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 17 28.00	061 42 00	04 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 40.20	144 24 00	23 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 17 44.00	063 00 00	03 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 17 44.60	093 48 00	20 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 17 52.50	063 54 00	03 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 17 56.90	143 30 00	21 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 18 00.50	064 48 00	03 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 18 11.50	065 36 00	02 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 18 14.20	097 00 00	18 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 18.90	142 36 00	19 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 18 19.50	066 36 00	02 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 18 29.00	067 30 00	02 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 18 36.00	099 00 00	16 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 18 38.50	068 30 00	02 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 39.20	141 54 00	17 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 18 56.00	070 00 00	01 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 18 59.70	141 18 00	15 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 19 02.00	101 12 00	14 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 19 06.00	071 00 00	01 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	21 19 13.50	071 42 00	01 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 19 22.20	140 42 00	13 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 19 25.20	102 54 00	13 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 19 45.50	140 12 00	11 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 10.40	278 48 00	13 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 24.10	276 12 00	14 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 35.40	273 54 00	15 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 56 52.50	270 24 00	16 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 08.60	266 54 00	17 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 23.90	263 24 00	18 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 57 43.40	258 42 00	19 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 02.50	254 00 00	20 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	22 58 17.10	250 18 00	21 18 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
4 AUG 1958 (CONT)							
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 58 32.70	246 12 00	21 42 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 58 53.40	240 54 00	22 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 59 12.20	236 06 00	22 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 59 31.40	231 18 00	22 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	22 59 47.50	227 24 00	21 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 59 52.20	241 18 00	60 16 00	
WALTMSTW ENG	51 35 00 N	000 00 00		23 00 00.00	023 04 00 *	31 00 00 *	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	23 00 02.40	224 06 00	21 36 00	
WALTMSTW ENG	51 35 00 N	000 00 00		23 00 04.50	023 05 00 *	29 47 00 *	
CHELMSTO ENG	51 43 00 N	000 30 00		23 00 08.00	022 56 00 *	28 00 00 *	
WALTMSTW ENG	51 35 00 N	000 00 00		23 00 09.00	023 06 00 *	28 12 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	23 00 12.60	225 12 00	60 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	23 00 20.40	220 06 00	21 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 00 38.00	205 48 00	57 42 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	23 00 41.30	215 42 00	20 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 00 58.50	194 18 00	53 54 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	23 01 01.50	211 54 00	19 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 01 12.60	189 06 00	51 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	23 01 24.40	208 06 00	18 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	23 01 47.30	204 12 00	17 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 01 47.80	177 36 00	44 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 02 04.80	173 36 00	40 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 02 21.40	171 06 00	38 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	23 02 22.80	199 18 00	15 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	23 02 40.40	168 18 00	35 00 00	
5 AUG 1958							
MEUDON FR	48 48 18 N	002 13 52	162	00 39 57.20	304 41 00	08 43 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 13.50	303 09 00	10 11 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 26.80	301 49 00	11 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 38.60	300 29 00	12 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 48.60	299 22 00	13 19 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 40 59.00	298 04 00	14 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 41 23.10	294 53 00	16 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 41 36.20	293 00 00	17 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 41 48.10	289 08 00	19 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 42 04.40	288 21 00	20 50 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 42 19.20	285 31 00	22 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 42 31.40	283 11 00	23 40 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 42 43.30	280 35 00	24 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 42 55.70	277 44 00	26 05 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 43 08.10	274 51 00	27 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 43 18.50	272 11 00	28 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 43 30.50	269 04 00	29 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 43 45.70	264 50 00	30 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 43 57.90	261 20 00	31 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 44 09.60	257 49 00	31 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 44 21.40	254 13 00	32 29 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 44 33.10	250 36 00	32 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 44 45.20	247 08 00	33 09 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 44 57.80	242 54 00	33 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	00 45 10.30	238 58 00	33 22 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	04 06 05.00	004 38 00 *	69 18 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	04 06 06.00	034 35 00	19 00 00	
CAROC CAN	46 47 10 N	288 43 45	91	04 06 42.91	017 39 00 *	86 12 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	04 08 00.60	022 46 00 *	58 24 00 *	
N CANTON B O	41 04 50 N	278 26 02		04 08 22.80	001 46 00 *	43 24 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	04 09 47.00	057 00 00	19 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	04 10 14.00	000 58 00 *	23 00 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	05 49 24.00	014 27 30 *	41 48 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	05 49 24.10	008 13 33 *	72 48 00 *	
DENV R A COLO	39 44 52 N	255 03 24	1625	05 49 57.60	028 00 00	24 00 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	05 51 39.40	018 41 25 *	66 54 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	05 52 21.50	346 00 00	83 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	05 52 30.00	018 45 00 *	43 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 32 01.00	018 30 30 *	88 18 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 33 59.10	001 57 33 *	70 43 00 *	
DENV R A COLO	39 44 52 N	255 03 24	1625	07 34 50.40	303 30 00	41 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 17 13.40	016 02 08 *	34 11 00 *	
SACMTO A CAL	38 38 25 N	238 43 24	180	11 14 35.80	180 00 00	69 15 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
5 AUG 1958 (CONT)							
MAUI HAWAII	20 42 36 N	203 44 23	3048	13 07 15.74	001 02 30 *	63 09 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	13 07 47.71	001 37 36 *	61 51 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	14 24 53.00	002 24 00 *	67 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 53 26.01	275 36 00	08 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 54 28.22	301 06 00	12 48 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 55 27.84	328 00 00	13 36 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 56 26.59	353 36 00	10 30 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 57 28.80	007 12 00	06 48 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	21 01 35.04	000 15 54 *	05 04 00 *	
ATHNS PLE GR	38 02 50 N	023 51 45	509	21 01 41.95	000 14 12 *	04 50 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 07 46.80	008 36 00 *	64 42 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 08 15.90	358 12 00	34 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 08 32.60	004 12 00	36 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 08 55.60	014 18 00	39 48 00	
HANOVR E GER	52 18 20 N	009 36 42		21 09 10.00	001 43 00 *	58 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 09 11.80	022 42 00	41 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 09 23.90	002 03 00 *	68 12 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 09 41.30	038 06 00	42 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 09 49.40	001 14 00 *	60 06 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		21 09 52.00	000 07 00 *	24 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 10 17.80	056 18 00	41 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 10 42.60	067 12 00	39 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 11 07.20	075 18 00	36 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 11 22.00	079 48 00	34 18 00	
HANOVR B GER	52 22 10 N	009 45 11		21 11 35.30	000 00 42 *	25 03 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 11 37.20	083 36 00	32 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 11 48.10	023 46 00 *	27 48 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 11 56.00	087 54 00	30 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 12 12.10	090 48 00	28 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 12 26.60	093 12 00	26 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 12 41.90	095 30 00	25 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 12 58.30	097 30 00	23 30 00	
HANOVR A GER	52 18 20 N	009 35 42	110	21 13 00.00	023 45 00 *	12 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 13 15.50	099 24 00	21 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 13 28.30	101 00 00	20 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 13 44.20	102 18 00	19 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 13 56.50	103 24 00	18 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 06.80	023 37 00 *	04 54 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 17.20	105 12 00	16 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 31.50	106 12 00	15 24 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	21 14 41.28	000 13 12 *	02 12 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 14 46.20	107 12 00	14 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 15 01.00	108 12 00	13 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 51 11.50	307 28 00	14 48 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 51 18.60	330 07 00	19 58 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 51 36.80	331 26 00	22 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 51 41.50	304 30 00	18 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 51 55.70	332 59 00	26 14 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 51 59.40	302 48 00	21 12 00	
RICHMOND ENG	54 24 00 N	358 18 00		22 52 07.00	015 35 00 *	70 30 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 52 10.70	334 34 00	29 15 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 52 12.00	301 12 00	23 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 52 30.40	298 48 00	26 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 52 43.00	296 54 00	28 18 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 52 45.30	339 06 00	37 08 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 52 53.40	295 00 00	30 18 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 53 04.10	342 56 00	42 20 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 53 04.20	293 42 00	32 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 53 15.70	290 24 00	34 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 53 22.70	347 16 00	47 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 53 31.10	286 36 00	37 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 53 42.10	283 18 00	40 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 53 47.60	356 33 00	54 50 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 53 53.60	279 24 00	42 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 54 04.80	275 18 00	44 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 54 06.50	006 59 00	60 26 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 54 23.30	267 12 00	48 12 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 54 33.60	030 25 00	66 20 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 54 35.60	260 48 00	50 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 54 47.70	250 00 00	51 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
5 AUG 1958 (CONT)							
MEUOON FR	48 48 18 N	002 13 52	162	22 54 59.70	059 54 00	67 20 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 55 01.20	245 30 00	53 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 55 15.50	236 24 00	53 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 55 19.90	079 53 00	64 39 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 55 35.50	091 16 00	61 23 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 55 42.00	219 54 00	52 48 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 55 50.10	099 03 00	27 50 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 55 55.60	212 24 00	51 24 00	
RICHMONO ENG	54 24 00 N	358 18 00		22 55 57.00	022 25 00 *	08 30 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 56 03.60	106 02 00	53 29 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 56 06.40	207 00 00	50 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 56 21.40	200 18 00	48 06 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 56 21.40	110 05 00	50 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 56 31.10	196 06 00	46 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 56 34.90	113 14 00	47 04 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 56 42.20	192 54 00	44 54 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 56 47.90	115 50 00	44 16 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 56 52.50	189 18 00	43 12 00	
RICHMONO ENG	54 24 00 N	358 18 00		22 56 58.00	022 35 00 *	00 30 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 57 01.20	117 57 00	41 34 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 57 03.10	186 48 00	41 30 00	
AGEN FRANCE	44 10 36 N	000 35 42		22 57 09.00	034 12 00	43 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 57 13.00	184 12 00	40 00 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 57 13.00	119 34 00	39 20 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 57 21.90	182 24 00	38 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 57 27.20	121 05 00	36 49 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 57 32.10	180 18 00	37 06 00	
AGEN FRANCE	44 10 36 N	000 35 42		22 57 53.00	080 00 00	41 36 00	
AGEN FRANCE	44 10 36 N	000 35 42		22 58 16.00	087 00 00	39 06 00	
6 AUG 1958							
MEUOON FR	48 48 18 N	002 13 52	162	00 35 44.50	299 08 00	10 56 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 36 06.20	296 30 00	12 42 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 36 18.30	294 55 00	13 44 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 36 30.90	293 09 00	14 47 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 37 19.10	285 33 00	19 04 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 37 38.20	281 58 00	20 43 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 37 50.40	279 34 00	21 49 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 38 07.70	275 57 00	23 14 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 38 23.50	272 26 00	24 29 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 38 36.60	269 13 00	25 25 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 38 50.70	265 49 00	26 19 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 39 11.40	260 28 00	27 20 00	
MEUOON FR	48 48 18 N	002 13 52	162	00 39 29.50	255 39 00	28 08 00	
WASH BEHL OC	38 49 13 N	282 59 31	162	00 39 45.60	251 18 00	28 45 00	
				04 03 31.10	001 42 00 *	59 03 00 *	
SPOKN A WASH	47 37 37 N	242 38 59	706	05 44 08.00	001 00 00 *	37 00 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	05 44 58.00	315 00 00	21 00 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	05 45 30.60	033 30 00	29 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	05 45 33.00	313 00 00	26 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	05 46 01.00	309 00 00	31 00 00	
OAYTON B O	39 50 14 N	275 44 03	249	05 46 16.70	015 35 00	58 30 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	05 46 35.00	303 00 00	35 00 00	
OAYTON B O	39 50 14 N	275 44 03	249	05 47 20.50	017 30 00 *	54 10 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	05 47 35.00	017 48 00 *	39 12 00 *	
PORTLANO ORE	45 29 19 N	237 22 27	46	07 28 40.40	022 28 00 *	28 36 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	07 29 15.60	302 30 00	31 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 29 16.50	000 31 02 *	70 44 00 *	
PORTLANO ORE	45 29 19 N	237 22 27	46	09 11 10.00	016 25 00 *	20 30 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 12 29.80	016 15 32 *	29 34 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	14 19 37.00	002 10 00 *	73 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	14 19 39.00	002 05 00 *	69 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 43.40	295 18 00	15 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 03.20	291 48 00	20 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 11.20	290 42 00	21 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 19.30	289 36 00	22 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 29.00	288 12 00	24 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 40.30	286 18 00	26 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 50.10	284 30 00	28 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 59.60	282 30 00	30 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 06.10	280 54 00	32 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
6 AUG 1958 (CONT)							
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 02 13.80	279 06 00	33 48 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 02 25.30	275 54 00	36 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 02 33.80	273 06 00	38 30 00	
HORSBROG ENG	50 53 00 N	000 15 00		21 02 39.00	027 00 00	23 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 02 41.00	270 36 00	40 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 02 50.50	266 42 00	42 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 03 05.70	259 36 00	45 48 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 03 15.50	254 18 00	48 00 00	
LNOSTRT NETH	52 37 39 N	004 44 58		21 03 22.10	002 04 00 *	58 36 00 *	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 03 23.70	249 18 00	49 24 00	
HORSBROG ENG	50 53 00 N	000 15 00		21 03 32.00	043 00 00	22 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 03 32.30	243 42 00	50 54 00	
BUSSUM NETH	52 16 52 N	005 09 18		21 03 44.64	001 24 00 *	52 42 00 *	
LNOSTRT NETH	52 37 39 N	004 44 58		21 03 49.30	001 29 48 *	50 00 00 *	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 04 04.40	219 48 00	53 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 04 10.20	215 54 00	52 54 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 04 25.80	205 00 00	51 48 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 04 35.40	198 48 00	50 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 04 46.00	192 54 00	49 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 04 56.20	187 48 00	47 24 00	
HORSBROG ENG	50 53 00 N	000 15 00		21 05 01.00	065 00 00	21 00 00	
OLST NETH	52 19 51 N	006 08 28		21 05 06.70	000 15 42 *	34 42 00 *	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 05 15.00	180 06 00	44 00 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 05 27.20	175 48 00	41 42 00	
BUSSUM NETH	52 16 52 N	005 09 18		21 05 36.20	000 05 48 *	28 06 00 *	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 05 40.20	172 06 00	39 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 05 51.80	169 18 00	37 18 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 06 05.40	166 24 00	35 06 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 06 21.20	163 42 00	32 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 06 42.00	160 34 00	29 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 07 02.90	158 12 00	26 48 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	21 07 06.81	002 01 59 *	56 42 00 *	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 07 16.20	156 54 00	25 12 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 07 30.30	155 36 00	23 30 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 07 44.10	154 36 00	22 00 00	
ATHNS PLE GR	38 02 50 N	023 51 45	509	21 07 57.50	001 35 36 *	51 54 00 *	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 07 57.80	153 36 00	20 36 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 08 10.80	152 48 00	19 24 00	
BUSSUM NETH	52 16 52 N	005 09 18		21 08 24.90	023 41 24 *	05 12 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		22 35 39.00	022 45 00 *	72 00 00 *	
VLAROGN NETH	51 54 49 N	004 18 59		22 48 17.60	017 30 00 *	54 48 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		22 48 23.00	016 31 30 *	50 24 00 *	
LNOSTRT NETH	52 37 39 N	004 44 58		22 49 00.60	019 12 42 *	39 12 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		22 49 01.00	018 56 54 *	41 24 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 49 03.90	010 12 00	72 20 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 49 25.40	045 14 00	76 34 00	
LNOSTRT NETH	52 37 39 N	004 44 58		22 49 37.80	020 05 00 *	31 18 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 49 47.90	084 05 00	73 35 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 50 21.10	111 07 00	64 26 00	
BUSSUM NETH	52 16 52 N	005 09 18		22 50 24.20	020 48 06 *	17 00 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 50 38.70	117 39 00	59 03 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 50 57.30	122 03 00	53 42 00	
SNEEK NETH	53 02 25 N	005 39 52		22 50 57.90	021 02 36 *	04 36 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 51 14.60	124 49 00	49 15 00	
SEAFORO ENG	50 48 00 N	000 06 00		22 51 23.00	022 13 00 *	08 00 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	22 51 31.40	126 59 00	45 13 00	
MEUOON FR	48 48 18 N	002 13 52	162	22 51 48.50	128 37 00	41 35 00	
7 AUG 1958							
AMES A IOWA	42 01 59 N	266 22 00	305	03 55 27.26	040 00 00	17 00 00	
MLWKEE B WIS	42 59 25 N	272 01 15		03 55 45.80	002 12 00 *	55 30 00 *	
BRYN ATHN PA	40 08 00 N	284 56 00	85	03 56 22.00	000 00 00	30 00 00	
SCHNTOT A NY	42 53 32 N	285 58 57	235	03 57 14.75	023 30 00 *	77 20 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	03 58 27.00	045 00 00	26 00 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	04 02 44.00	001 24 00 *	58 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 37 52.03	331 30 00	21 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 38 36.09	316 30 00	28 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 39 21.00	335 30 00	38 54 00	
SACHTO E CAL	38 32 55 N	238 14 51	15	05 39 24.00	001 45 45 *	37 40 00 *	
DENV R A COLO	39 44 52 N	255 03 24	1625	05 39 43.80	028 30 00	32 18 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
7 AUG 1958 (CONT)							
AMES IOWA	42 01 43 N	266 20 59		05 40 14.00	017 45 42 *	73 34 10 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	05 40 15.00	015 40 00 *	54 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 40 24.00	343 30 00	56 18 00	
AMES IOWA	42 01 43 N	266 20 59		05 40 48.00	019 49 01 *	66 17 49 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 40 59.00	356 30 00	68 42 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 41 23.00	016 40 00 *	48 30 00 *	
AMES IOWA	42 01 43 N	266 20 59		05 41 24.00	020 55 39 *	54 51 14 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	05 41 34.30	018 18 00 *	46 25 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	05 46 15.00	016 19 48 *	35 24 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	05 46 24.00	016 29 00 *	32 12 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 18 04.00	011 52 30 *	54 12 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	07 22 59.10	022 50 10 *	84 30 00 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	07 23 27.00	299 00 00	28 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	09 05 27.10	015 21 15 *	30 30 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	14 10 46.00	013 51 00 *	54 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	14 12 53.00	005 40 00 *	82 00 00 *	
TADOTSU J	34 16 20 N	133 45 16	5	14 13 34.00	002 05 00 *	74 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	14 13 42.00	000 40 00 *	78 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 55 16.10	287 36 00	22 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 55 27.30	285 42 00	24 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 55 41.70	283 00 00	27 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 55 54.80	280 12 00	29 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 56 07.70	277 00 00	32 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 56 24.70	271 54 00	35 48 00	
HORSBROG ENG	50 53 00 N	000 15 00		20 56 35.00	027 00 00	25 00 00	
BUSSUM NETH	52 16 52 N	005 09 18		20 56 35.20	003 45 00 *	68 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 56 37.90	267 12 00	38 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 56 56.10	259 24 00	42 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 57 10.10	252 30 00	44 36 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 57 12.40	043 48 00	28 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 57 23.80	245 00 00	46 36 00	
BUSSUM NETH	52 16 52 N	005 09 18		20 57 27.80	001 25 12 *	58 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 57 40.90	234 18 00	48 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 57 55.40	224 54 00	48 48 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 58 06.40	059 36 00	25 30 00	
HORSBROG ENG	50 53 00 N	000 15 00		20 58 12.00	055 00 00	24 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 58 24.60	207 18 00	47 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 58 39.10	199 24 00	46 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 58 52.10	193 24 00	44 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 58 59.60	071 36 00	21 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 59 04.50	188 24 00	42 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 59 20.20	182 48 00	40 06 00	
HORSBROG ENG	50 53 00 N	000 15 00		20 59 23.00	070 00 00	19 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 59 31.90	179 18 00	38 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 59 47.20	175 18 00	35 54 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 00 00.00	053 48 00	10 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 00 00.00	081 06 00	17 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 01.80	172 06 00	33 42 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 00 09.00	055 18 00	10 36 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 00 18.00	056 42 00	10 24 00	
JOKNN OB FIN	60 46 50 N	023 30 09	103	21 00 20.90	168 36 00	31 00 00	
BUSSUM NETH	52 16 52 N	005 09 18		21 00 25.60	023 37 30 *	18 06 00 *	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 00 27.00	058 00 00	10 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 36.90	166 12 00	28 48 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 00 42.50	060 12 00	09 54 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 00 51.50	061 48 00	09 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 00 52.70	164 06 00	26 54 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 01 01.00	062 54 00	09 24 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 01 09.50	064 00 00	09 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 12.60	161 48 00	24 36 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 01 20.00	065 18 00	08 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 01 20.70	089 36 00	11 54 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 01 29.50	066 30 00	08 24 00	
ARBEVILLE FR	50 07 30 N	001 49 42		21 01 30.00	089 00 00	14 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 30.10	160 06 00	22 42 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 01 38.36	067 36 00	08 18 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	21 01 47.00	068 30 00	07 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 01 47.20	158 42 00	21 00 00	
BUSSUM NETH	52 16 52 N	005 09 18		21 02 03.20	023 26 06 *	06 06 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	21 02 08.90	157 12 00	18 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
7 AUG 1958 (CONT)							
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 02 23.50	073 00 00	06 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 02 33.00	073 42 00	06 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 02 37.10	155 24 00	16 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 02 47.00	075 18 00	05 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 02 58.00	076 24 00	05 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 03 05.00	077 06 00	05 24 00	
JOKNN 08 FIN	60 48 50 N	023 30 09	103	21 03 06.30	153 48 00	14 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 39 03.20	316 30 00	22 06 00	
RICHMOND ENG	54 24 00 N	358 18 00		22 39 52.00	013 31 00 *	53 00 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		22 39 54.90	013 07 42 *	41 42 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 40 02.70	315 30 00	34 36 00	
HORSBROG ENG	50 53 00 N	000 15 00		22 40 11.00	321 00 00	32 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 40 42.00	294 42 00	21 06 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 40 47.10	314 18 00	47 54 00	
BUSSUM NETH	52 16 52 N	005 09 18		22 40 49.60	014 18 00 *	46 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 41 00.00	291 48 00	22 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 41 38.20	266 24 00	37 42 00	
BATTERSE ENG	51 28 00 N	359 51 00		22 41 39.20	017 11 00 *	65 48 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 41 41.60	307 48 00	70 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 41 46.00	281 54 00	30 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 41 48.50	350 54 00	27 54 00	
BLARICM NETH	52 16 15 N	005 14 53		22 41 51.07	016 18 24 *	46 24 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 42 00.00	352 48 00	29 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 42 06.40	276 42 00	33 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 42 09.50	354 42 00	31 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 42 22.50	271 42 00	35 42 00	
BUSSUM NETH	52 16 52 N	005 09 18		22 42 22.70	017 20 00 *	39 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 42 25.50	358 12 00	34 30 00	
BILTHVN NETH	52 08 27 N	005 12 46		22 42 32.54	017 49 04 *	41 24 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		22 42 35.00	305 00 00	87 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 42 36.50	001 00 00	36 36 00	
CHELMSPD ENG	51 43 00 N	000 30 00		22 42 44.00	019 55 00 *	45 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 42 48.50	004 00 00	39 06 00	
BILTHVN NETH	52 08 27 N	005 12 46		22 42 48.96	018 21 00 *	37 36 00 *	
BLARICM NETH	52 16 15 N	005 14 53		22 42 49.82	018 22 48 *	36 42 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 42 52.80	260 48 00	39 24 00	
FARNBORO ENG	51 18 00 N	359 12 00		22 42 54.00	020 40 00 *	45 00 00 *	
LNDSTRT NETH	52 37 39 N	004 44 58		22 42 57.60	018 48 42 *	33 12 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 42 57.70	154 00 00	73 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 43 01.00	007 18 00	41 24 00	
BILTHVN NETH	52 08 27 N	005 12 46		22 43 07.96	018 52 36 *	33 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 43 08.00	010 00 00	42 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 43 16.20	251 00 00	41 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 43 16.50	013 24 00	44 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 43 26.50	017 30 00	45 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 43 30.80	244 54 00	42 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 43 33.50	020 24 00	47 24 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 43 37.10	147 06 00	58 30 00	
HORSBROG ENG	50 53 00 N	000 15 00		22 43 41.00	145 00 00	65 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 43 42.50	024 24 00	48 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 43 47.30	237 36 00	42 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 43 52.00	029 12 00	49 54 00	
BUSSUM NETH	52 16 52 N	005 09 18		22 43 55.70	019 56 36 *	19 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 44 00.40	231 54 00	42 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 44 00.50	033 42 00	50 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 44 08.00	037 48 00	51 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 44 16.40	225 06 00	42 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 44 20.50	044 54 00	53 12 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 44 29.60	144 06 00	43 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 44 30.20	219 42 00	41 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 44 30.50	051 00 00	53 36 00	
UTRCT 8 NETH	52 05 31 N	005 05 20		22 44 34.70	020 36 18 *	14 24 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 44 39.50	056 18 00	53 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 44 42.60	215 12 00	40 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 44 47.50	060 24 00	53 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 44 56.60	210 30 00	39 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 44 58.00	066 54 00	51 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 45 06.00	071 12 00	51 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 45 13.10	205 24 00	37 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 45 16.50	076 30 00	50 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
7 AUG 1958 (CONT)							
CAMBR U ENG	52 12 51 N	000 05 41	28	22 45 20.40	143 00 00	34 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 45 24.50	080 30 00	49 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 45 31.50	082 48 00	48 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 45 33.00	200 12 00	35 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 45 40.50	086 42 00	47 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 45 49.00	090 24 00	46 24 00	
8 AUG 1958							
AMES A IOWA	42 01 59 N	266 22 00	305	03 46 22.00	001 00 00	11 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 47 57.00	021 30 00	16 42 00	
CARDC CAN	46 47 10 N	288 43 45	91	03 48 33.00	013 04 00 *	55 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 48 34.80	030 00 00	19 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 49 18.00	039 30 00	18 06 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	03 49 51.80	040 12 00	27 15 00	
AMES IOWA	42 01 43 N	266 20 59		03 50 01.00	001 34 08 *	43 01 09 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 50 24.00	059 30 00	18 42 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	03 50 43.00	000 35 00 *	72 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 51 30.00	067 00 00	15 54 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	03 52 05.00	023 29 00 *	30 06 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 52 15.00	074 00 00	15 42 00	
BRISTOL TENN	36 35 03 N	277 50 31	527	03 52 22.00	045 00 00	27 00 00	
CARDC CAN	46 47 10 N	288 43 45	91	04 48 33.00	013 04 00 *	55 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 30 51.00	326 30 00	15 36 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 30 53.00	001 00 00 *	36 54 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 31 41.00	326 30 00	23 42 00	
DENV R A COLO	39 44 52 N	255 03 24	1625	05 32 25.20	009 00 00	29 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 32 37.00	327 30 00	33 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 33 21.00	328 30 00	44 06 00	
AMES IOWA	42 01 43 N	266 20 59		05 33 47.00	016 46 41 *	66 52 43 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 33 56.00	328 30 00	55 18 00	
VICHITA KAN	37 41 44 N	262 45 19	413	05 33 57.10	020 09 50 *	89 21 00 *	
AMES IOWA	42 01 43 N	266 20 59		05 34 13.00	018 07 23 *	64 05 04 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 34 32.00	329 30 00	68 18 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	05 34 33.30	016 49 08 *	46 27 42 *	
DAYTON A O	39 50 40 N	275 44 32	251	05 34 50.00	016 13 00 *	44 00 00 *	
AMES IOWA	42 01 43 N	266 20 59		05 34 57.00	019 47 07 *	52 35 37 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	05 34 57.20	278 48 00	56 15 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 35 07.00	016 33 00 *	42 45 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 14 18.50	014 03 00 *	64 42 00 *	
DENV R A COLO	39 44 52 N	255 03 24	1625	07 17 34.20	290 00 00	29 30 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	08 58 54.00	016 08 00 *	17 24 00 *	
KANAGAWA J	35 26 34 N	139 21 16	51	14 06 00.00	010 45 00 *	82 00 00 *	
KANAGAWA J	35 26 34 N	139 21 16	51	14 06 30.00	014 00 00 *	88 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	14 06 33.00	001 00 00 *	89 00 00 *	
AGEN FRANCE	44 10 36 N	000 35 42		20 47 36.00	013 00 00	13 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 48 13.70	288 18 00	20 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 48 24.30	286 36 00	21 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 48 35.30	284 36 00	23 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 48 47.70	282 18 00	25 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 48 59.70	279 48 00	27 30 00	
COPNGN A DEN	55 44 41 N	012 33 09		20 49 10.00	011 30 00 *	62 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 49 11.40	276 54 00	29 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 49 26.80	272 42 00	32 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 49 39.20	268 42 00	34 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 49 49.90	265 54 00	36 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 49 59.50	261 24 00	38 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 50 08.20	257 36 00	39 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 50 14.80	254 24 00	40 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 50 26.70	240 48 00	42 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 50 43.50	240 00 00	44 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 50 55.70	233 12 00	44 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 51 11.70	224 18 00	45 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 51 24.20	217 24 00	44 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 51 36.70	210 42 00	44 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 51 46.20	206 06 00	43 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 52 05.20	197 42 00	41 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 52 15.80	193 36 00	40 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 52 32.20	187 54 00	38 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 52 44.10	184 18 00	36 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 53 09.90	178 00 00	32 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
8 AUG 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 53 27.60	174 30 00	30 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 53 45.80	171 18 00	28 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 54 02.60	169 00 00	26 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 54 20.50	166 42 00	24 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 54 38.30	164 42 00	22 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 54 50.50	163 36 00	21 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 33 22.00	337 42 00	14 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 33 32.00	337 18 00	16 24 00	
PIC MIOI FR	42 56 12 N	000 06 32	2862	22 33 48.00	339 18 00	18 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 33 56.00	340 06 00	19 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 34 05.00	341 00 00	20 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 34 05.70	289 24 00	22 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 34 13.50	341 30 00	21 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 34 20.60	286 36 00	24 42 00	
PIC MIOI FR	42 56 12 N	000 06 32	2862	22 34 23.50	342 24 00	23 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 34 33.00	343 24 00	24 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 34 34.90	283 54 00	26 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 34 41.50	344 30 00	26 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 34 44.90	281 24 00	27 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 34 53.00	345 54 00	28 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 34 55.50	279 06 00	29 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 35 04.00	347 18 00	30 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 35 05.70	276 18 00	30 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 35 14.80	273 48 00	31 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 35 17.50	349 30 00	33 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 35 27.00	270 18 00	32 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 35 34.50	352 42 00	36 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 35 35.90	267 24 00	33 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 35 43.50	354 30 00	38 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 35 49.20	263 18 00	35 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 35 53.00	356 24 00	40 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 35 59.60	259 18 00	36 06 00	
COPNGN A OEN	55 44 41 N	012 33 09		22 36 01.04	017 27 00 *	02 06 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 36 03.00	359 00 00	42 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 36 11.50	001 48 00	44 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 36 13.80	254 30 00	37 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 36 18.50	003 48 00	46 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 36 22.80	251 18 00	37 42 00	
AGEN FRANCE	44 10 36 N	000 35 42		22 36 23.00	002 00 00	53 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 36 27.00	007 12 00	48 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 36 30.60	248 18 00	38 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 36 35.50	010 12 00	50 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 36 45.80	2-2 24 00	38 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 36 46.50	015 24 00	52 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 36 54.30	239 00 00	38 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 36 55.50	019 48 00	54 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 37 07.40	234 12 00	38 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 37 15.60	231 06 00	38 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 37 20.50	035 18 00	58 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 37 24.20	228 00 00	38 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 37 31.00	043 00 00	59 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 37 34.10	224 15 00	37 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 37 42.50	051 30 00	59 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 37 45.10	220 30 00	37 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 37 49.50	056 54 00	59 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 37 53.20	219 06 00	36 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 37 59.00	063 54 00	59 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 38 03.10	214 48 00	36 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 38 08.50	070 24 00	58 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 38 11.90	212 18 00	35 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 38 20.50	078 18 00	57 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 38 26.20	000 00 00	34 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 38 28.50	083 06 00	56 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 38 35.50	086 54 00	55 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 38 36.70	205 30 00	33 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 38 41.00	089 54 00	54 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 38 49.40	202 42 00	32 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 38 50.00	093 48 00	53 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
9 AUG 1958							
CLEVELND A O	41 29 46 N	278 12 16	220	01 59 48.00	036 54 00	07 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 39 26.00	030 00 00	13 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 40 03.00	008 30 00	14 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 40 39.00	015 30 00	17 06 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 41 40.00	024 30 00	19 48 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 41 41.00	358 00 00	26 00 00	
AMES IOWA	42 01 43 N	266 20 59		03 42 05.00	002 12 34 *	53 55 18 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 42 17.00	037 30 00	21 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 43 08.00	051 00 00	21 30 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	03 43 08.00	044 30 00	31 15 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 43 35.00	030 00 00	40 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 43 45.10	058 00 00	21 00 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 43 52.60	000 52 30 *	46 26 36 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	03 43 57.70	055 37 00	14 19 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 44 28.00	067 00 00	20 18 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 44 37.00	059 48 00	41 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 45 05.00	074 00 00	18 30 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 45 21.00	075 00 00	41 00 00	
ARLINGTON VA	38 50 48 N	282 53 35	59	03 45 21.00	023 49 00 *	58 12 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	03 45 47.00	023 44 00	30 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 24 24.00	325 00 00	20 18 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 23 16.60	001 41 00 *	50 24 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 24 18.00	335 14 00	17 19 00	
DAVIS CAL	38 19 48 N	238 31 12		05 24 42.40	002 18 01 *	49 52 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 25 02.00	324 30 00	27 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 25 28.00	323 30 00	31 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 25 47.00	323 30 00	35 18 00	
CLEVELND A O	41 29 46 N	278 12 16	220	05 25 55.00	302 00 00	20 00 00	
DENV R A COLO	39 44 52 N	255 03 24	1625	05 26 00.00	015 15 00	36 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 26 12.00	321 30 00	41 30 00	
AMES IOWA	42 01 43 N	266 20 59		05 26 20.00	015 34 50 *	61 15 59 *	
CLEVELND A O	41 29 46 N	278 12 16	220	05 26 38.00	297 24 00	24 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 26 39.00	320 00 00	48 48 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 26 39.00	014 54 00 *	41 50 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 26 43.00	344 48 00	43 06 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 26 46.50	304 08 00	25 26 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 26 58.00	015 11 00 *	41 20 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	05 27 00.10	015 54 57 *	43 42 48 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 27 04.70	348 49 00	49 21 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 27 13.00	314 30 00	06 01 20	
DAYTON B O	39 50 14 N	275 44 03	249	05 27 18.00	015 30 00 *	40 50 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 27 21.00	353 18 00	53 57 00	
OSANVILLE ILL	40 08 57 N	272 22 26	189	05 27 24.00	302 00 00	40 00 00	
WICHITA KAN	37 41 44 N	262 45 19	413	05 27 28.22	020 12 00 *	80 48 00 *	
AMES IOWA	42 01 43 N	266 20 59		05 27 30.00	018 17 13 *	53 38 48 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 27 30.00	356 05 00	56 57 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 27 38.00	358 23 00	59 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 27 41.00	306 30 00	69 18 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 27 48.00	002 55 00	61 58 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	05 27 52.00	017 13 00 *	36 30 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 27 55.00	006 00 00	63 52 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	05 28 03.00	016 15 00 *	26 50 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	05 28 05.00	011 36 00	66 33 00	
CLEVELND A O	41 29 46 N	278 12 16	220	05 28 06.00	280 00 00	33 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 28 06.00	016 28 00 *	37 30 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	05 28 15.00	016 43 00 *	27 00 00 *	
AMES IOWA	42 01 43 N	266 20 59		05 28 15.00	019 20 46 *	44 18 04 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	05 28 16.70	261 30 00	54 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 06 30.00	013 07 00 *	56 00 00 *	
DAVIS CAL	38 19 48 N	238 31 12		07 10 07.80	019 47 54 *	70 09 00 *	
DENV R A COLO	39 44 52 N	255 03 24	1625	07 10 15.60	288 30 00	25 00 00	
CHITNGA TENN	35 01 02 N	274 44 23	229	08 30 08.06	213 00 00	85 00 00	
DAVIS CAL	38 19 48 N	238 31 12		08 52 53.80	015 53 04 *	22 23 00 *	
SACMTO A CAL	38 38 25 N	238 43 24	180	09 38 59.71	180 00 00	71 12 00	
MITAKA J	35 40 20 N	139 32 30	50	12 15 29.30	041 18 00	15 42 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	12 15 43.47	001 38 12 *	45 45 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	12 15 53.09	001 32 12 *	44 22 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	12 16 05.14	001 25 12 *	42 38 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	12 16 21.00	000 05 00 *	28 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	12 17 05.00	001 17 00 *	33 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
9 AUG 1958 (CONT)							
MITAKA J	35 40 20 N	139 32 30	50	12 17 08.10	059 36 00	16 00 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	13 57 37.46	012 47 12 *	62 36 00 *	
MITAKA J	35 40 20 N	139 32 30	50	13 58 27.70	333 12 00	29 12 00	
SAPPORO J	43 04 49 N	141 22 13	20	13 58 41.00	016 37 00 *	43 00 00 *	
HIROSHIMA J	34 22 08 N	132 28 10	3	13 58 50.00	003 30 00 *	87 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	13 58 54.30	014 19 18 *	68 15 00 *	
MITAKA J	35 40 20 N	139 32 30	50	13 59 11.20	333 48 00	37 42 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	13 59 20.00	017 21 00 *	85 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	13 59 21.00	017 00 00 *	83 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	13 59 44.06	016 49 00 *	68 36 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	15 58 28.00	013 25 00 *	78 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		20 42 25.04	014 13 00 *	72 48 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		20 42 32.00	014 56 00 *	73 40 00 *	
CHELMSEF ENG	51 43 00 N	000 30 00		20 42 33.00	001 36 00 *	58 00 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		20 42 40.00	034 00 00	32 00 00	
WELLS ENG	52 58 00 N	000 52 00		20 42 41.00	000 46 00 *	57 00 00 *	
WEESP NETH	52 18 12 N	005 02 21		20 42 57.30	000 09 12 *	56 12 00 *	
LNDSTRT NETH	52 37 39 N	004 44 58		20 43 07.00	000 48 24 *	62 54 00 *	
LNDSTRT NETH	52 37 39 N	004 44 58		20 43 15.80	000 31 36 *	60 18 00 *	
LNDSTRT NETH	52 37 39 N	004 44 58		20 43 25.20	000 17 30 *	51 12 00 *	
LNDSTRT NETH	52 37 39 N	004 44 58		20 43 33.40	000 07 12 *	54 36 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		20 43 42.20	021 57 54 *	51 42 00 *	
WELLS ENG	52 58 00 N	000 52 00		20 44 35.00	069 00 00	25 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 44 46.00	023 23 00 *	25 00 00 *	
BEXHILL ENG	50 51 00 N	000 30 00		22 25 13.80	308 48 00	28 24 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 26 09.00	013 35 00 *	53 00 00 *	
FASSBURG GER	52 54 00 N	010 11 00		22 26 15.20	301 42 00	43 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 27 00.00	015 06 00 *	29 00 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		22 27 03.30	287 24 00	58 42 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 27 39.00	016 27 00 *	15 35 00 *	
COPNGN A DEN	55 44 41 N	012 33 09		22 27 39.10	260 18 00	69 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 27 40.04	016 27 00 *	15 48 00 *	
BEXHILL ENG	50 51 00 N	000 30 00		22 28 14.30	213 06 00	70 36 00	
WEESP NETH	52 18 12 N	005 02 21		22 28 25.00	229 00 00	77 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 28 47.70	019 18 00 *	13 24 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 28 56.90	178 12 00	60 48 00	
BEXHILL ENG	50 51 00 N	000 30 00		22 29 36.30	165 42 00	50 06 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 29 55.00	020 30 00 *	13 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 30 09.60	160 24 00	42 42 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	22 30 47.30	152 24 00	35 36 00	
10 AUG 1958							
CLEVELND A O	41 29 46 N	278 12 16	220	01 52 00.00	001 04 00 *	35 08 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 31 59.00	357 00 00	15 06 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 33 18.00	019 12 00	20 18 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 33 47.00	352 42 00	25 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 34 03.00	030 12 00	22 24 00	
AMES IOWA	42 01 43 N	266 20 59		03 34 19.00	002 03 10 *	55 38 25 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 34 47.00	042 00 00	24 00 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 34 55.00	015 20 00 *	63 30 00 *	
AMES IOWA	42 01 43 N	266 20 59		03 35 12.00	001 09 22 *	46 27 52 *	
PITTSBGH PA	40 29 00 N	280 00 00	381	03 35 20.00	004 30 00 *	83 00 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	03 35 31.00	021 45 36 *	78 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 35 32.00	053 00 00	23 48 00	
ST COLL PA	40 44 01 N	282 06 33	393	03 35 40.00	001 00 00 *	88 00 00 *	
FT BELVR VA	38 45 30 N	282 48 42	85	03 35 45.00	000 00 00	34 00 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	03 35 58.60	000 38 36 *	50 17 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 36 15.00	001 23 00 *	60 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 36 15.00	061 00 00	23 24 00	
OANVILLE ILL	40 08 57 N	272 22 26	189	03 36 27.00	050 00 00	30 00 00	
BRYN ATHN PA	40 08 00 N	284 56 00	85	03 36 27.64	000 00 00	48 00 00	
N CANTON A O	40 55 54 N	278 32 40	366	03 36 49.24	023 42 00 *	55 30 00 *	
ARLINGTON VA	38 50 48 N	282 53 35	59	03 37 05.00	023 10 30 *	70 42 00 *	
SCHNTOY A NY	42 53 32 N	285 58 57	235	03 37 33.20	020 47 00 *	45 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 38 10.00	082 30 00	18 18 00	
MILLBROOK NY	41 51 30 N	286 22 33	243	03 38 13.00	020 55 00 *	44 10 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 10 01.00	006 00 00 *	28 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	05 10 52.00	293 33 00	26 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 16 23.00	321 00 00	19 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 AUG 1958 (CONT)							
AMES A IOWA	42 01 59 N	266 22 00	305	05 17 08.00	319 42 00	26 00 00	
OANVILLE ILL	40 08 57 N	272 22 26	189	05 17 51.00	312 00 00	20 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 18 00.00	316 00 00	35 30 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 18 01.00	000 06 00 *	28 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 18 19.00	314 42 00	40 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 18 46.00	311 42 00	47 00 00	
ST LOUIS MO	38 39 46 N	269 32 35	191	05 18 49.00	014 34 00 *	55 05 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	05 18 56.10	015 26 48 *	40 40 00 *	
AMES IOWA	42 01 43 N	266 20 59		05 19 02.00	016 26 43 *	54 15 59 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 19 12.00	306 42 00	54 00 00	
ST LOUIS MO	38 37 59 N	269 48 09	152	05 19 19.00	014 34 00 *	55 05 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	05 19 26.00	015 30 00 *	38 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 19 38.20	298 00 00	62 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 19 39.40	015 42 00 *	37 00 00 *	
DAVIS CAL	38 19 48 N	238 31 12		05 19 47.80	000 34 08 *	26 47 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	05 19 48.00	283 54 00	28 12 00	
DAYTON B O	39 50 14 N	275 44 03	249	05 19 51.50	015 53 00 *	36 10 00 *	
AMES IOWA	42 01 43 N	266 20 59		05 19 55.00	018 09 28 *	45 16 11 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	05 19 58.20	056 00 00	50 00 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	05 20 12.00	017 05 00 *	32 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	05 20 22.00	016 22 00 *	33 10 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 20 30.91	264 00 00	73 48 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	07 00 17.00	018 41 00 *	39 12 00 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	07 02 16.20	288 00 00	23 00 00	
DAVIS CAL	38 19 48 N	238 31 12		07 02 52.90	019 53 50 *	56 34 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	08 44 52.80	015 42 37 *	21 03 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	08 44 54.00	016 32 00 *	08 48 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	11 25 40.11	013 48 00 *	48 48 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	11 25 57.90	014 19 00 *	48 54 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	12 06 17.00	001 10 00 *	57 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	12 07 17.30	001 50 12 *	51 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	12 07 36.50	001 31 36 *	48 12 00 *	
HGSHMTSYMA J	36 02 27 N	139 23 54	31	13 50 38.00	014 30 00 *	62 00 00 *	
HIROSHIMA J	34 22 08 N	132 28 10	3	13 50 55.00	020 40 00 *	89 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 51 08.00	017 04 00 *	34 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	13 51 09.00	015 17 36 *	64 20 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	13 51 18.60	015 37 12 *	64 14 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	13 51 20.60	016 03 18 *	63 50 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 32 04.30	289 06 00	16 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 32 20.60	286 42 00	18 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 32 34.60	284 18 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 32 48.40	281 48 00	22 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 33 04.80	278 30 00	24 48 00	
BEXHILL ENG	50 51 00 N	000 30 00		20 33 16.00	003 00 00	25 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 33 24.00	273 48 00	27 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 33 36.00	270 36 00	29 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 33 44.80	331 24 00	33 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 33 47.70	267 06 00	31 06 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	20 33 51.00	011 06 00	11 54 00	
COPNGN A DEN	55 44 41 N	012 33 09		20 33 52.00	013 12 00 *	65 20 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 34 00.00	334 06 00	36 00 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	20 34 00.30	013 00 00	12 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 34 02.40	262 12 00	33 18 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	20 34 08.00	014 30 00	12 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 34 15.00	257 42 00	34 54 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	20 34 18.00	016 36 00	13 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 34 18.40	337 36 00	43 12 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	20 34 25.50	018 00 00	13 48 00	
BEXHILL ENG	50 51 00 N	000 30 00		20 34 26.00	035 00 00	33 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 34 28.60	340 24 00	46 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 34 30.30	251 30 00	36 36 00	
CHELMSPG ENG	51 43 00 N	000 30 00		20 34 36.00	000 46 00	56 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 34 38.10	343 00 00	49 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 34 44.00	245 42 00	38 00 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	20 34 44.50	022 00 00	14 18 00	
COPNGN A DEN	55 44 41 N	012 33 09		20 34 45.00	017 30 00 *	67 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 34 48.20	346 24 00	52 18 00	
PIC MIDO FR	42 56 12 N	000 08 32	2862	20 34 55.00	024 06 00	14 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 34 56.50	350 24 00	55 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 34 57.30	239 42 00	38 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG1 ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 AUG 1958 (CONT)							
HANOVR F GER	52 22 18 N	009 47 22		20 35 05.40	022 36 06 *	63 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 35 07.00	355 48 00	58 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 35 09.00	234 24 00	39 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 35 09.00	027 18 00	15 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 35 14.40	000 30 00	61 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 35 18.00	029 06 00	15 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 35 21.60	228 30 00	39 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 35 22.60	007 00 00	63 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 35 27.60	031 00 00	15 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 35 34.10	017 36 00	66 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 35 36.00	032 54 00	15 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 35 39.60	220 18 00	39 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 35 43.00	027 36 00	67 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 35 47.50	035 12 00	15 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 35 53.10	039 36 00	68 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 35 54.50	037 00 00	16 00 00	
COPHGN A DEN	55 44 41 N	012 33 09		20 35 56.00	020 19 00 *	41 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 35 56.70	213 00 00	38 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 36 02.50	038 48 00	16 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 36 04.70	054 30 00	58 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 36 10.50	040 18 00	16 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 36 13.50	055 06 00	67 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 36 16.30	205 24 00	37 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 36 22.00	042 42 00	16 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 36 22.00	073 54 00	65 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 36 28.80	201 00 00	36 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 36 31.00	044 48 00	16 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 36 31.00	081 48 00	64 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 36 38.00	046 06 00	16 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 36 38.80	057 42 00	62 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 36 45.00	195 48 00	34 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 36 46.60	092 24 00	60 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 36 48.00	048 06 00	16 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 36 54.80	096 24 00	57 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 36 59.50	050 12 00	15 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 01.90	099 30 00	55 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 37 05.50	051 36 00	15 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 09.80	102 30 00	53 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 37 12.00	188 30 00	31 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 37 15.00	053 18 00	15 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 16.10	104 30 00	52 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 37 23.50	054 54 00	15 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 23.90	106 42 00	50 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 37 29.20	184 42 00	29 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 30.80	108 30 00	48 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 37 31.00	056 18 00	15 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 38.10	110 06 00	46 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 37 39.50	058 00 00	15 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 45.90	111 36 00	45 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 37 48.70	180 54 00	27 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 37 49.00	059 30 00	14 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 37 53.40	113 12 00	43 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 37 58.50	061 12 00	14 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 38 01.40	114 18 00	41 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 38 06.00	062 24 00	14 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 38 08.10	115 24 00	40 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 38 09.00	177 36 00	25 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 38 15.80	116 18 00	38 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 38 17.50	064 12 00	13 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 38 25.50	065 30 00	13 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 38 27.10	117 30 00	36 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 38 32.00	066 36 00	13 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 38 35.50	118 24 00	35 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 38 39.20	173 30 00	22 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 38 41.50	068 06 00	13 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 38 43.00	119 12 00	34 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 38 48.50	069 00 00	12 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 38 51.50	119 42 00	32 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 39 02.50	071 06 00	12 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 07.60	121 12 00	30 06 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATIC OR DECLINATIO N	SLANT RANGE IN KM
10 AUG 1958 (CONT)							
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 39 11.00	072 12 00	12 00 00	
JOKNN DB FIN	60 48 50 N	023 30 09	103	20 39 14.20	169 42 00	19 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 15.90	121 24 00	29 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 39 18.50	073 12 00	11 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 23.50	022 02 30 *	04 45 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 39 26.00	074 12 00	11 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 29.10	122 24 00	27 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 39 36.00	075 18 00	11 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 39.00	123 06 00	26 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 39 44.50	076 00 00	10 54 00	
JOKNN DB FIN	60 48 50 N	023 30 09	103	20 39 46.70	166 54 00	17 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 48.20	123 30 00	25 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 39 52.00	077 48 00	10 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 39 55.60	123 54 00	24 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 40 04.00	078 42 00	10 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 40 04.40	124 18 00	23 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 40 11.50	079 42 00	09 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 40 14.60	124 36 00	22 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 40 19.00	080 24 00	09 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 40 24.90	125 12 00	21 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 40 25.50	080 54 00	09 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 40 34.00	082 00 00	08 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 40 34.30	125 24 00	20 12 00	
JOKNN DB FIN	60 48 50 N	023 30 09	103	20 40 36.50	163 36 00	13 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 40 42.50	082 48 00	08 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 40 44.30	125 36 00	19 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 40 51.00	083 48 00	08 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 15 39.10	311 06 00	15 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 16 42.00	331 06 00	10 42 00	
CAMBR U ENG	52 12 51 N	000 05 41	26	22 16 47.50	306 48 00	26 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 16 48.30	299 30 00	12 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 16 51.60	331 24 00	11 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 17 00.00	331 30 00	12 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 17 09.00	331 42 00	13 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 17 10.90	295 48 00	14 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 17 17.50	331 54 00	14 30 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 17 32.50	301 24 00	31 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 17 33.40	292 36 00	16 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 17 35.00	332 42 00	16 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 17 43.50	333 06 00	17 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 17 46.20	290 54 00	17 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 17 51.50	333 30 00	18 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 17 55.50	289 24 00	18 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 18 01.50	333 54 00	20 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 18 05.10	287 30 00	19 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 18 09.50	334 12 00	21 24 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 18 15.30	292 06 00	47 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 18 18.00	334 48 00	22 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 18 26.60	283 30 00	21 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 18 27.50	335 18 00	24 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 18 35.50	335 48 00	25 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 18 35.70	281 54 00	22 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 18 45.00	336 24 00	27 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 18 45.60	279 48 00	23 42 00	
CDPNGN A DEN	55 44 41 N	012 33 09		22 18 51.00	015 48 00 *	- 16 45 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 18 55.00	337 06 00	29 06 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 18 59.20	278 36 00	57 00 00	
FASSBURG GER	52 54 00 N	010 11 00		22 19 00.00	015 01 00 *	27 24 00 *	
CDPNGN A DEN	55 44 41 N	012 33 09		22 19 00.04	015 56 00 *	16 18 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 19 00.80	276 24 00	20 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 19 01.00	337 36 00	30 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 19 10.50	338 24 00	31 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 19 19.50	339 00 00	34 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 19 30.30	269 06 00	27 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 19 32.00	340 18 00	36 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 19 33.60	242 42 00	65 36 00	
CDPNGN A DEN	55 44 41 N	012 33 09		22 19 35.00	016 36 00 *	12 10 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 19 39.50	341 06 00	38 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 19 44.30	265 18 00	29 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 19 46.00	341 54 00	40 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 AUG 1958 (CONT)							
BERLN SG GER	52 28 30 N	013 20 30	50	22 19 52.70	262 48 00	29 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 19 55.50	343 12 00	42 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 20 01.10	260 24 00	30 12 00	
WEESP NETH	52 18 12 N	005 02 21		22 20 02.20	017 20 30 *	25 48 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 20 05.50	344 48 00	45 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 20 10.60	257 24 00	30 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 20 11.40	275 30 00	63 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 20 14.00	346 06 00	47 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 20 17.80	255 18 00	31 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 20 22.00	348 06 00	49 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 20 27.20	252 24 00	31 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 20 33.50	351 00 00	53 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 20 35.70	249 42 00	32 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 20 41.00	353 00 00	55 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 20 43.90	247 12 00	32 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 20 49.50	356 00 00	58 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 20 51.60	244 24 00	32 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 20 56.50	358 00 00	60 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 20 57.10	180 00 00	53 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 21 00.80	241 24 00	32 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 21 04.00	218 00 00	62 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 21 11.30	238 30 00	32 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 21 11.50	006 24 00	64 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 21 17.00	009 42 00	66 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 21 20.30	235 36 00	32 36 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 21 24.00	015 06 00	68 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 21 29.70	232 42 00	32 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 21 30.20	170 54 00	46 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 21 37.10	230 36 00	32 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 21 45.10	228 30 00	31 57 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 21 52.10	226 06 00	31 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 00.20	224 00 00	31 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 08.90	221 36 00	31 03 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 22 14.40	165 00 00	37 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 16.50	219 30 00	30 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 23.70	217 54 00	30 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 37.50	214 30 00	29 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 44.80	212 48 00	29 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 52.30	211 00 00	28 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 22 59.90	209 30 00	28 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 23 00.00	109 12 00	62 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	22 23 07.50	113 00 00	60 24 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 46 10.80	290 24 00	48 00 00	
11 AUG 1958							
BERLN SG GER	52 28 30 N	013 20 30	50	02 21 24.85	227 30 00	29 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 24 17.00	008 00 00	19 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 25 12.00	021 00 00	22 42 00	
CAROC CAN	46 47 10 N	288 43 45	91	03 25 40.10	013 48 00 *	48 48 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	03 25 57.90	014 19 00 *	48 54 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	03 26 30.50	015 48 00 *	83 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 26 31.00	039 30 00	25 24 00	
ST LOUIS MO	38 37 59 N	269 48 09	152	03 27 13.00	001 32 30 *	54 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 27 16.00	045 30 00	26 00 00	
MILLBROOK NY	41 51 30 N	286 22 33	243	03 27 23.00	015 15 00 *	69 40 00 *	
OANVILLE ILL	40 08 57 N	272 22 26	189	03 29 09.00	070 00 00	32 30 00	
ARLINGTON VA	38 50 48 N	282 53 35	59	03 29 10.40	022 11 00 *	56 54 00 *	
SCHNTOY A NY	42 53 32 N	285 58 57	235	03 29 29.70	020 31 00 *	34 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 29 30.00	079 30 00	10 42 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	03 29 36.10	021 57 54 *	25 12 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	05 01 57.00	015 30 00 *	31 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 07 59.00	000 42 30 *	48 00 00 *	
ST LOUIS MO	38 37 59 N	269 48 09	152	05 10 31.00	016 21 30 *	47 08 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	05 10 52.00	293 33 00	26 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	05 10 56.90	000 26 54 *	29 53 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	05 11 20.40	052 15 00	55 30 00	
KANCITY MO	39 02 02 N	265 25 08	259	05 11 41.00	017 54 00 *	54 24 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	05 12 10.10	019 56 00 *	58 06 00 *	
SACMTO A CAL	38 38 25 N	238 43 24	180	06 54 28.50	019 23 00 *	50 09 00 *	
SACMTO A CAL	38 38 25 N	238 43 24	180	08 36 16.90	015 39 51 *	19 14 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
11 AUG 1958 (CONT)							
KOCHI J	33 33 25 N	133 30 35	30	12 00 18.00	000 33 00 *	35 00 00 *	
CHIBA J	35 51 29 N	139 58 14	10	17 42 04.00	006 10 00 *	87 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 42 11.00	016 39 00 *	32 00 00 *	
KANAGAWA J	35 26 34 N	139 21 16	51	13 42 13.00	015 00 00 *	73 00 00 *	
KOCHI J	33 33 25 N	133 30 35	30	13 42 24.00	015 23 00 *	59 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	13 42 33.00	000 56 00 *	84 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 42 46.00	017 20 00 *	26 00 00 *	
MT FUJI J	35 31 21 N	138 48 50	815	13 43 02.00	315 00 00	50 00 00	
CHIBA J	35 51 29 N	139 58 14	10	13 43 07.00	023 37 00 *	77 00 00 *	
OFFTT AF NEB	41 06 00 N	264 06 00		20 06 30.00	300 00 00	83 26 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 23 13.20	286 48 00	17 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 23 24.10	285 06 00	18 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 23 37.10	282 48 00	20 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 23 51.40	280 06 00	22 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 24 02.40	277 42 00	23 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 24 19.80	273 36 00	26 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 24 31.30	327 00 00	31 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 24 36.00	269 18 00	28 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 24 38.80	327 54 00	33 06 00	
COPNGN A DEN	55 44 41 N	012 33 09		20 24 44.92	012 57 00 *	61 12 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 24 47.40	265 48 00	30 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 24 48.70	329 00 00	35 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 24 56.70	329 54 00	37 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 25 04.50	260 18 00	32 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 25 05.70	331 00 00	40 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 25 14.80	332 30 00	42 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 25 18.40	255 24 00	33 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 25 23.30	334 06 00	45 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 25 28.80	251 24 00	35 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 25 31.20	335 48 00	48 06 00	
HORSSROG ENG	50 53 00 N	000 15 00		20 25 40.00	040 00 00	35 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 25 40.50	330 06 00	51 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 25 47.30	243 54 00	36 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 25 47.70	340 12 00	53 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 25 57.40	239 42 00	36 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 25 57.60	344 12 00	57 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 26 05.40	247 30 00	60 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 26 06.30	235 54 00	37 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 26 14.80	353 06 00	63 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 26 16.60	231 24 00	37 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 26 23.70	359 36 00	66 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 26 27.60	226 42 00	37 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 26 32.20	008 00 00	69 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 26 40.50	017 18 00	71 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 26 44.00	220 00 00	37 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 26 53.40	037 24 00	73 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 26 58.10	214 24 00	36 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 27 02.80	053 00 00	73 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 27 06.60	211 06 00	36 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 27 14.20	070 12 00	71 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 27 18.70	206 54 00	35 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 27 24.10	082 18 00	69 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 27 31.30	088 48 00	67 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 27 34.40	201 42 00	34 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 27 39.90	095 06 00	65 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 27 45.80	198 18 00	33 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 27 46.70	099 36 00	63 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 27 55.50	103 48 00	60 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 28 00.70	194 18 00	31 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 02.30	106 30 00	58 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 08.90	108 54 00	56 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 28 15.30	194 18 00	30 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 15.80	110 54 00	54 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 23.70	112 54 00	52 16 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 28 29.56	010 10 00 *	76 24 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 31.70	114 42 00	50 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 28 38.20	185 54 00	27 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 39.40	116 12 00	48 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 48.70	117 30 00	45 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 28 55.90	118 30 00	44 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
11 AUG 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 29 00.80	181 54 00	25 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 03.10	119 30 00	42 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 12.40	120 24 00	40 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 18.70	121 00 00	39 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 29 20.60	178 54 00	23 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 24.80	121 54 00	38 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 32.60	122 18 00	36 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 38.50	123 00 00	35 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 29 43.41	000 57 00 *	86 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 45.00	123 24 00	34 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 50.80	123 54 00	33 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 29 57.69	023 40 00 *	82 46 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 29 59.70	124 18 00	32 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 30 05.20	173 30 00	19 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 06.70	124 54 00	31 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 13.40	125 00 00	30 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 30 15.84	023 10 00 *	76 54 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 21.90	125 30 00	29 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 27.60	126 00 00	28 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 34.00	126 06 00	27 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 30 34.84	023 06 00 *	70 24 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 30 35.00	170 36 00	17 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 41.90	126 18 00	26 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 49.10	126 48 00	25 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 30 56.50	127 00 00	24 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 31 03.80	127 12 00	23 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 31 04.20	168 18 00	15 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 31 10.10	127 42 00	23 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 31 17.18	023 08 00 *	59 06 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 31 22.10	128 00 00	21 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 31 27.00	166 48 00	13 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 31 28.90	128 12 00	21 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 31 35.70	128 18 00	20 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 31 42.20	128 30 00	20 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 31 45.69	023 22 00 *	03 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 31 50.60	127 54 00	19 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 31 52.90	165 12 00	10 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 08 06.40	301 36 00	30 18 00	
CHELMSFO ENG	51 43 00 N	000 30 00		22 10 29.00	017 12 00 *	36 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 10 49.90	226 00 00	61 18 00	
FARNHAM ENG	51 12 00 N	359 12 00		22 10 59.00	018 35 00 *	38 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 11 15.30	254 12 00	29 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 11 27.10	250 42 00	29 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 11 37.80	247 36 00	30 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 11 48.20	244 36 00	30 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 11 54.10	242 48 00	30 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 01.30	240 42 00	30 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 10.40	238 00 00	30 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 14.60	236 00 00	30 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 28.20	232 54 00	30 06 00	
FARNBORO ENG	51 18 00 N	359 12 00		22 12 31.50	019 55 00 *	10 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 35.00	231 18 00	30 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 42.10	229 30 00	29 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 48.50	227 30 00	29 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 12 55.90	225 36 00	29 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 13 02.40	224 06 00	29 12 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 13 06.50	169 48 00	37 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 13 12.30	221 36 00	28 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 13 23.80	218 42 00	28 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 13 31.20	217 18 00	27 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 13 40.30	215 06 00	27 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 13 50.40	213 06 00	26 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	22 13 59.00	211 24 00	26 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 13 59.60	163 54 00	29 54 00	
CHELMSFO ENG	51 43 00 N	000 30 00		23 13 23.00	020 11 00 *	00 30 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 14 56.60	275 48 00	31 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	23 17 48.20	222 06 00	37 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
12 AUG 1958							
GR TRK A BWI	21 25 59 N	288 51 16		00 11 00.00	178 16 48	21 52 12	
CAROC CAN	46 47 10 N	288 43 45	91	01 32 39.00	001 53 00 *	63 30 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	01 35 45.00	000 16 30 *	27 42 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 14 13.00	000 00 00	15 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 15 05.00	359 30 00	20 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 15 41.00	017 30 00	23 06 00	
MILLBROOK NY	41 51 30 N	286 27 33	243	03 16 00.00	012 10 00 *	57 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 16 34.00	032 00 00	26 18 00	
AMES IOWA	42 01 43 N	266 20 59		03 16 42.00	001 33 30 *	58 44 03 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 17 09.00	042 00 00	27 42 00	
AMES IOWA	42 01 43 N	266 20 59		03 17 26.00	000 43 11 *	50 12 28 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 17 44.00	052 30 00	28 00 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 17 57.40	000 07 00 *	58 50 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 18 21.00	062 30 00	27 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 18 56.00	070 30 00	26 12 00	
N CANTON A O	40 55 54 N	278 32 40	366	03 19 09.00	022 34 00 *	58 10 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 19 32.00	078 30 00	24 42 00	
SCHNTOY A NY	42 53 32 N	285 58 57	235	03 20 11.40	019 50 00 *	33 00 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 20 22.00	023 01 00 *	21 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 20 26.00	086 30 00	20 42 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	03 20 51.00	022 22 31 *	23 36 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 58 38.00	000 30 00 *	50 00 30 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 58 44.00	317 00 00	18 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 59 27.00	313 00 00	24 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	05 00 20.00	307 00 00	33 42 00	
AMES IOWA	42 01 43 N	266 20 59		05 00 54.00	015 29 38 *	47 03 24 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	05 01 00.80	000 29 12 *	36 42 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 01 05.00	298 00 00	43 18 00	
N CANTON A O	40 55 54 N	278 32 40	366	05 01 47.00	015 28 00 *	25 40 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 01 48.00	285 00 00	52 48 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	05 01 50.70	015 59 26 *	30 45 12 *	
AMES IOWA	42 01 43 N	266 20 59		05 01 55.00	017 04 13 *	39 12 01 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	05 01 55.20	045 00 00	60 00 00	
OAYTON B O	39 50 14 N	275 44 03	249	05 01 57.00	015 30 00 *	31 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	05 02 24.86	265 00 00	60 12 00	
DAVIS CAL	38 19 48 N	238 31 12		05 10 01.05	000 29 12 *	36 42 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	06 43 47.00	018 06 30 *	29 54 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	06 44 51.60	018 20 22 *	51 21 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	08 26 56.90	015 33 25 *	17 49 00 *	
SENOAI J	38 15 22 N	140 51 56	45	13 33 42.00	286 18 00	50 18 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	13 33 44.00	017 40 00 *	68 00 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	20 00 28.22	035 00 00	39 30 00	
ATHENS GR	37 56 19 N	023 43 01	110	20 10 24.50	021 55 00 *	78 24 00 *	
GRONNGN NETH	53 12 18 N	006 34 01		20 15 27.00	000 58 48 *	87 54 30 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 15 52.10	246 00 00	34 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 16 01.00	244 24 00	34 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 16 03.70	315 00 00	54 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 16 10.20	240 42 00	35 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 16 11.40	317 36 00	57 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 16 17.50	024 54 00	17 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 16 19.00	320 00 00	60 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 16 25.30	234 42 00	35 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 16 26.50	027 06 00	17 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 16 28.10	324 00 00	64 17 00	
GRONNGN NETH	53 12 18 N	006 34 01		20 16 33.70	021 53 18 *	62 24 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 16 36.00	029 06 00	17 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 16 36.40	329 00 00	37 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 16 37.50	229 48 00	35 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 16 47.00	031 42 00	18 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 16 47.20	225 48 00	35 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 16 52.80	345 18 00	73 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 16 56.00	034 00 00	18 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 16 57.40	222 00 00	35 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 17 03.40	001 48 00	76 24 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 17 04.00	035 42 00	18 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 17 09.20	217 24 00	35 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 17 10.50	037 06 00	18 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 17 12.00	019 48 00	77 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 17 20.00	039 30 00	18 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 17 23.70	211 18 00	34 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
12 AUG 1958 (CONT)							
BERLN SG GER	52 28 30 N	013 20 30	50	20 17 29.30	055 30 00	76 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 17 30.00	041 42 00	18 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 17 34.50	208 42 00	33 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 17 36.50	043 18 00	18 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 17 40.20	071 18 00	73 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 17 45.50	045 12 00	18 47 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 17 47.10	078 18 00	70 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 17 52.10	203 06 00	33 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 17 54.50	047 18 00	18 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 17 58.30	086 48 00	66 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 18 02.70	200 12 00	32 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 18 04.90	089 48 00	64 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 18 05.00	049 30 00	18 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 18 13.20	093 00 00	62 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 18 13.50	051 18 00	18 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 18 16.10	196 48 00	30 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 18 22.50	053 18 00	18 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 18 24.50	010 23 00 *	72 18 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 18 29.20	193 18 00	29 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 18 30.70	098 00 00	56 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 18 32.50	055 12 00	18 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 18 39.50	056 42 00	17 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 18 41.50	101 00 00	53 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 18 44.30	190 18 00	27 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 18 49.00	058 30 00	17 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 18 57.50	060 06 00	17 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 18 59.50	010 13 00 *	80 06 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 19 00.00	187 18 00	26 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 19 05.00	061 48 00	17 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 19 13.60	184 54 00	25 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 19 15.50	063 36 00	17 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 19 24.50	065 06 00	16 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 19 25.80	105 36 00	42 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 19 26.00	010 08 00 *	83 06 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 19 31.70	182 06 00	23 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 19 34.40	106 06 00	40 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 19 35.50	066 54 00	16 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 19 43.80	106 48 00	38 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 19 50.20	179 30 00	21 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 19 52.00	021 37 00 *	89 24 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 19 53.00	070 06 00	15 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 19 53.20	107 30 00	36 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 20 04.50	071 54 00	15 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 20 08.10	108 12 00	33 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 20 10.00	177 06 00	20 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 20 10.00	021 46 00 *	85 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 20 12.50	073 00 00	14 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 20 18.50	073 48 00	14 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 20 18.70	108 48 00	32 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 20 24.50	021 55 00 *	78 24 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 20 26.00	075 00 00	14 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 20 31.20	174 48 00	18 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 20 38.00	076 42 00	13 42 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 20 46.50	077 36 00	13 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 20 50.70	173 00 00	17 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 20 54.00	021 55 00 *	72 30 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 20 55.00	079 00 00	12 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 21 04.50	080 06 00	12 30 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 21 12.50	081 12 00	12 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 21 14.00	171 06 00	15 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 21 20.50	021 45 00 *	63 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 22.00	082 24 00	11 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 31.00	083 24 00	11 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 21 37.60	169 18 00	13 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 21 39.50	084 24 00	10 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 21 47.00	021 34 00 *	53 36 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 21 56.50	086 06 00	10 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 22 04.30	167 42 00	12 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 22 06.00	087 00 00	09 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 22 14.00	088 00 00	09 24 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
12 AUG 1958 (CONT)							
PIC MIDI FR	42 56 12 N	000 08 32	2862	20 22 25.00	088 54 00	08 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 57 43.30	303 48 00	23 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 57 55.00	328 24 00	11 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 58 11.50	328 24 00	12 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 58 21.50	328 30 00	13 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 58 29.50	328 36 00	14 54 00	
RICHMOND ENG	54 24 00 N	358 18 00		21 58 37.00	014 30 00 *	38 30 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 58 38.50	328 42 00	16 06 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 58 39.50	295 42 00	33 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 58 46.50	328 48 00	17 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 58 55.00	329 06 00	18 12 00	
FARNHAM ENG	51 12 00 N	359 12 00		21 59 03.00	013 52 00 *	48 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 59 04.00	329 06 00	19 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 59 13.00	329 18 00	20 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 59 22.00	329 30 00	22 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 59 31.50	329 30 00	23 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	21 59 40.00	329 42 00	25 06 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 59 41.20	278 18 00	47 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 00 00.00	330 06 00	28 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 00 08.50	330 12 00	30 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 00 17.00	330 24 00	31 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 00 19.60	258 24 00	55 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 00 25.50	330 36 00	34 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 00 32.50	330 54 00	35 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 00 40.50	331 12 00	37 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 00 50.50	331 18 00	39 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 00 59.10	230 30 00	57 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 01 08.00	331 48 00	42 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 01 17.00	332 12 00	44 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 01 28.00	332 54 00	47 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 01 34.50	333 12 00	49 42 00	
CHELMSFO ENG	51 43 00 N	000 30 00		22 01 36.00	018 14 00 *	21 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 01 42.00	333 54 00	53 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 01 44.20	201 54 00	53 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 01 50.50	334 30 00	55 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 02 00.00	335 18 00	58 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 02 07.50	336 36 00	61 24 00	
RICHMOND ENG	54 24 00 N	358 18 00		22 02 13.00	019 23 00 *	03 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 02 18.00	337 42 00	64 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 02 27.50	339 06 00	68 24 00	
PIC MIDI FR	42 56 12 N	000 06 32	2862	22 02 37.50	342 36 00	71 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 02 49.50	179 54 00	42 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 02 49.50	346 36 00	75 54 00	
FARNBORD ENG	51 18 00 N	359 12 00		22 02 56.00	019 40 00 *	09 00 00 *	
CHELMSFO ENG	51 43 00 N	000 30 00		22 02 56.00	019 23 00 *	06 00 00 *	
HERSTM CX ENG	50 52 01 N	000 20 16	32	22 02 57.00	019 20 00 *	02 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 03 02.50	356 54 00	80 54 00	
HERSTM CX ENG	50 52 01 N	000 20 16	32	22 03 16.00	176 00 00	43 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	22 03 42.60	170 48 00	33 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	22 04 07.50	128 48 00	66 54 00	
13 AUG 1958							
AMES A IOWA	42 01 59 N	266 22 00	305	03 04 10.56	357 18 00	15 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 04 54.62	005 18 00	19 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 05 29.18	012 48 00	22 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 06 06.00	021 18 00	26 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 06 32.00	028 48 00	28 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 06 50.00	034 18 00	28 36 00	
AMES IOWA	42 01 43 N	266 20 59		03 07 14.00	000 41 41 *	54 18 49 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 07 15.00	041 48 00	29 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 07 51.00	082 18 00	29 42 00	
ST LOUIS MO	38 39 46 N	269 32 35	191	03 07 55.00	001 24 00 *	57 48 00 *	
PITTSBGH PA	40 29 00 N	280 00 00	381	03 07 59.50	017 35 00 *	85 47 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	03 08 24.20	023 25 49 *	53 22 30 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 08 27.00	063 18 00	29 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 09 02.00	071 48 00	27 48 00	
N CANTON A O	40 55 54 N	278 32 40	366	03 09 17.00	021 56 00 *	56 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 09 29.00	078 48 00	25 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 09 56.00	082 18 00	24 18 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 10 12.00	090 00 00	47 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
13 AUG 1958 (CONT)							
AMES A IOWA	42 01 59 N	266 22 00	305	03 10 22.94	088 48 00	22 42 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 47 36.00	001 40 00 *	70 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 48 06.91	315 18 00	13 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 48 50.97	312 48 00	19 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 49 27.26	309 18 00	23 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 50 12.19	303 48 00	31 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 50 39.84	299 48 00	36 42 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	04 50 56.30	000 17 12 *	37 57 00 *	
AMES IOWA	42 01 43 N	266 20 59		04 51 03.00	015 34 18 *	43 02 42 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 51 06.62	293 18 00	42 18 00	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	04 51 12.00	000 50 00 *	78 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 51 29.95	283 18 00	49 18 00	
AMES IOWA	42 01 43 N	266 20 59		04 51 47.00	016 36 16 *	37 19 29 *	
EL PASO TEX	31 49 41 N	253 36 36		04 52 05.50	021 00 00	31 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 52 09.69	270 48 00	53 18 00	
DAYTON B O	39 50 14 N	275 44 03	249	04 52 19.50	015 40 00	26 30 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	04 52 28.80	068 00 00	65 30 00	
AMES IOWA	42 01 43 N	266 20 59		04 52 31.00	017 32 56 *	28 47 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 52 41.66	251 48 00	57 18 00	
BTLVL-A OKL	36 42 18 N	264 03 36	213	04 52 57.50	017 58 45 *	53 38 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 52 59.80	240 18 00	57 48 00	
KANCITY MO	39 02 02 N	265 25 06	259	04 53 04.50	018 04 00 *	39 40 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	06 31 08.00	014 04 00 *	45 24 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	06 34 45.80	017 49 03 *	48 26 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	08 16 57.70	015 29 51 *	16 12 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 21 42.00	015 31 00 *	32 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	13 23 23.00	017 05 00 *	66 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 24 43.00	017 33 00 *	13 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 31 42.00	015 31 00 *	32 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 04 50.80	259 06 00	30 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 05 04.80	254 18 00	31 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 05 17.90	249 42 00	32 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 05 32.90	244 06 00	33 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 05 45.80	239 18 00	34 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 05 59.30	234 06 00	34 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 06 13.40	228 42 00	34 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 06 28.50	223 00 00	34 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 07 15.50	010 07 00 *	65 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 07 18.90	206 18 00	31 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 07 24.70	112 00 00	71 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 07 29.80	203 18 00	30 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 07 32.70	115 54 00	68 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 07 41.30	118 54 00	65 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 07 42.50	200 00 00	29 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 07 48.90	121 06 00	62 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 07 51.70	197 42 00	29 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 07 52.00	010 13 00 *	69 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 07 55.40	122 48 00	60 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 02.70	124 00 00	57 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 08 10.70	193 24 00	27 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 10.90	125 12 00	55 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 17.30	126 00 00	53 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 08 22.40	191 00 00	26 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 24.00	126 54 00	51 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 08 27.50	010 22 00 *	75 42 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 31.50	127 48 00	49 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 08 35.90	188 30 00	25 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 40.10	128 06 00	47 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 46.60	128 48 00	45 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 08 49.00	186 18 00	24 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 08 53.00	129 06 00	44 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 09 01.30	129 48 00	42 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 09 09.40	130 00 00	40 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 09 16.60	130 18 00	38 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 09 21.20	181 36 00	21 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 09 24.00	130 48 00	37 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 09 35.90	179 48 00	20 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 09 36.00	017 39 00 *	85 54 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 09 48.90	178 12 00	19 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 09 49.00	132 00 00	33 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
13 AUG 1958 (CONT)							
ATHENS GR	37 58 19 N	023 43 01	110	20 09 57.00	020 15 00 *	81 36 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 10 01.20	132 00 00	31 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 10 07.50	176 24 00	17 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 10 11.50	132 30 00	29 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 10 20.50	132 42 00	28 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 10 21.30	175 06 00	16 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 10 29.00	132 54 00	27 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 10 30.50	021 10 00 *	70 36 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 10 36.80	133 00 00	26 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 10 40.70	173 24 00	15 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 10 45.30	133 06 00	25 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 10 47.50	021 21 00 *	67 42 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 10 56.30	133 12 00	24 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 10 59.00	021 33 00 *	60 42 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 10 59.10	171 54 00	14 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 11 06.80	133 30 00	22 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 11 14.50	021 31 00 *	56 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 11 14.90	170 48 00	13 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 11 14.70	133 42 00	22 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 11 25.80	133 54 00	20 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 11 30.00	169 48 00	12 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 11 34.30	134 00 00	20 00 00	
ATHENS GR	37 53 19 N	023 43 01	110	20 11 34.50	021 29 00 *	51 24 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 11 45.70	134 06 00	19 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 11 51.90	134 12 00	18 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 11 53.90	168 30 00	10 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 11 59.50	021 27 00 *	41 36 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	20 12 00.50	134 30 00	17 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 12 09.70	134 42 00	16 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	20 12 09.90	167 30 00	09 42 00	
HARROGTE ENG	53 59 00 N	358 26 00		21 48 16.00	014 33 00 *	37 30 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		21 49 30.00	016 37 00 *	29 30 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 50 38.10	256 30 00	25 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 50 47.90	256 06 00	26 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 50 54.80	254 24 00	26 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 01.20	252 48 00	26 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 09.30	250 36 00	26 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 17.70	248 24 00	26 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 25.90	246 12 00	27 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 33.40	244 18 00	27 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 39.60	242 48 00	27 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 48.00	240 24 00	27 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 51 55.50	238 36 00	27 00 00	
HARROGTE ENG	53 59 00 N	358 26 00		21 52 02.00	019 18 00 *	01 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 02.30	236 54 00	27 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 08.60	235 12 00	26 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 15.30	233 42 00	26 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 22.10	232 00 00	26 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 41.50	227 18 00	26 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 47.70	226 00 00	25 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 53.20	224 48 00	25 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 52 59.70	223 18 00	25 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 53 07.10	221 54 00	25 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 53 13.40	220 24 00	24 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 53 22.00	218 48 00	24 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 53 31.60	216 42 00	24 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 53 37.30	215 42 00	23 48 00	
S FERNNOO SP	36 27 42 N	353 47 42	30	21 53 37.53	022 57 00 *	45 25 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 53 46.00	214 06 00	23 16 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 53 53.30	212 54 00	22 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 54 00.30	211 42 00	22 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 54 07.30	210 18 00	22 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 54 17.70	208 48 00	21 24 00	
S FERNNOO SP	36 27 42 N	353 47 42	30	22 29 51.36	022 32 00 *	50 34 00 *	

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AMES A IOWA	42 01 59 N	266 22 00	305	02 53 16.00	354 18 00	15 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 54 00.00	031 48 00	18 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 54 27.00	006 48 00	21 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 54 53.00	013 48 00	23 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 55 30.00	022 18 00	27 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
14 AUG 1958 (CONT)							
AMES A IOWA	42 01 59 N	266 22 00	305	02 56 13.00	035 48 00	30 18 00	
AMES IOWA	42 01 43 N	266 20 59		02 56 21.00	000 39 43 *	58 20 47 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 56 32.50	002 02 00	33 49 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 56 41.00	044 48 00	31 18 00	
BUFFALO NY	42 58 00 N	281 24 00	229	02 56 47.00	015 20 00 *	72 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 57 06.00	052 48 00	32 18 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	02 57 06.00	016 58 48 *	69 42 00 *	
AMES IOWA	42 01 43 N	266 20 59		02 57 15.00	023 48 21 *	46 18 50 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	02 57 17.00	023 27 30 *	61 20 00 *	
DAYTON B O	39 50 14 N	275 44 03	271	02 57 24.00	023 18 00 *	74 40 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 57 34.00	060 48 00	31 18 00	
AMES IOWA	42 01 43 N	266 20 59		02 57 50.00	023 29 59 *	38 12 26 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 58 03.00	023 37 00 *	57 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 58 08.00	069 18 00	30 24 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 58 36.00	076 48 00	29 12 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	02 58 43.90	061 24 00	40 36 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	02 59 02.00	022 35 00 *	30 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 59 03.00	082 48 00	27 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 59 38.00	089 48 00	24 00 00	
DAYTON AFB O	39 47 00 N	274 55 00		02 59 49.63	023 12 00 *	30 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 00 05.00	093 48 00	22 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 27 54.00	311 48 00	17 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 28 54.00	309 18 00	21 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 29 06.00	304 48 00	26 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 29 40.99	299 48 00	33 18 00	
AMES IOWA	42 01 43 N	266 20 59		04 30 14.00	015 17 32 *	40 53 44 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 30 17.00	292 18 00	39 18 00	
AMES IOWA	42 01 43 N	266 20 59		04 30 58.00	016 04 20 *	36 44 23 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 30 52.00	282 18 00	45 42 00	
AMES IOWA	42 01 43 N	266 20 59		04 31 25.00	016 35 21 *	30 52 23 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 31 27.00	267 18 00	50 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 32 02.00	249 48 00	54 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 32 29.00	234 48 00	54 48 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	04 39 15.00	008 06 00 *	76 54 00 *	
GENVR A COLO	39 44 52 N	255 03 24	1625	04 39 28.80	350 45 00	44 30 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	04 39 29.00	007 40 00 *	79 12 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 39 37.00	023 01 00 *	28 00 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	04 39 57.00	003 37 00 *	84 48 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	04 40 57.00	015 33 00 *	27 00 00 *	
EL PASO TEX	31 49 41 N	253 36 36		04 41 12.00	032 12 00	38 42 00	
S AN RAFB TX	29 32 06 N	261 42 33	232	04 41 12.00	012 45 00 *	77 36 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	04 41 35.50	016 06 46 *	22 17 36 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	04 41 50.00	016 23 00 *	20 00 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	04 42 07.00	269 12 00	36 48 00	
ORGN PASS NM	32 25 24 N	253 26 51	1651	04 42 16.12	023 19 00 *	61 10 00 *	
BTLSVL-A OKL	36 42 18 N	264 03 36	213	04 42 21.00	017 46 45 *	48 57 55 *	
DAYTON B O	39 50 14 N	275 44 03	249	04 42 36.00	015 36 00 *	26 00 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	04 42 40.00	023 50 00 *	38 36 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	06 20 35.00	014 08 00 *	43 42 00 *	
KURMEMACHI J	35 45 18 N	139 31 48	52	11 27 43.00	023 02 00 *	50 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 28 43.00	022 27 00 *	32 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	11 28 54.00	022 41 00 *	30 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 30 38.00	022 15 00 *	07 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 31 18.00	022 03 00 *	00 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	13 09 56.00	014 40 00 *	30 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	13 10 45.00	016 20 00 *	19 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	13 11 47.00	016 26 00 *	21 00 00 *	
KYOTO J	35 01 01 N	135 42 24	55	13 12 25.00	013 00 00	42 00 00	
SAPPORO J	43 04 49 N	141 22 13	20	13 12 29.00	017 07 00 *	13 00 00 *	
KURMEMACHI J	35 45 18 N	139 31 48	52	13 31 17.00	016 26 00 *	21 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	19 51 50.60	319 00 00	17 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 52 17.50	319 36 00	22 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 52 30.00	319 48 00	24 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 52 44.60	319 54 00	27 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 52 48.60	272 36 00	23 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 52 56.40	320 30 00	29 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 52 58.00	270 12 00	24 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 53 05.30	320 42 00	31 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 53 09.80	267 12 00	26 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 53 14.40	321 00 00	33 48 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
14 AUG 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 53 19.30	264 30 00	27 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 53 23.10	321 18 00	36 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 53 31.00	321 36 00	38 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 53 31.60	260 48 00	28 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 53 39.50	322 00 00	40 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 53 42.60	257 24 00	29 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 53 47.50	322 30 00	43 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 53 53.80	253 42 00	30 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 53 56.70	322 54 00	46 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 54 05.80	249 30 00	31 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 54 06.30	323 36 00	49 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 54 14.40	324 24 00	52 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 54 26.00	242 30 00	32 36 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 54 29.10	325 48 00	58 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 54 38.30	327 12 00	61 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 54 42.60	236 18 00	33 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 54 50.90	233 12 00	33 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 54 51.70	330 24 00	67 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 55 01.60	333 48 00	72 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 55 08.40	226 54 00	33 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 55 10.30	338 30 00	76 06 00	
GRONNGN NETH	53 12 18 N	006 34 01		19 55 13.90	020 59 54 *	49 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 55 20.40	222 36 00	33 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 55 29.50	348 00 00	79 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 55 32.70	218 24 00	32 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 55 34.00	032 00 00	84 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 55 40.00	038 36 00	20 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 55 45.80	214 06 00	32 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 55 46.20	089 36 00	83 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 55 53.00	042 00 00	20 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 55 59.20	210 00 00	31 18 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 56 01.30	114 42 00	71 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 56 09.00	045 00 00	20 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 56 10.60	120 48 00	74 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 56 16.80	205 00 00	30 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 56 19.40	124 00 00	70 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 56 25.00	049 30 00	20 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 56 27.60	126 00 00	67 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 56 30.90	201 24 00	29 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 56 36.00	127 54 00	64 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 56 43.00	198 30 00	28 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 56 43.60	128 54 00	61 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 56 46.00	054 12 00	20 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 56 53.40	013 00 00	57 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 56 54.00	196 06 00	27 18 00	
PIC MIDI FR	42 56 12 N	000 08 32		19 56 56.00	056 18 00	20 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 57 04.00	011 01 00 *	70 48 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 04.20	131 00 00	54 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 57 07.30	193 24 00	26 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 57 11.00	059 36 00	19 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 12.20	131 30 00	52 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 57 19.20	191 06 00	25 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 19.60	132 30 00	50 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 57 23.00	061 54 00	19 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 27.20	132 36 00	48 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 57 31.00	063 30 00	19 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 57 31.00	011 36 00 *	76 36 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 57 31.80	189 00 00	24 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 36.60	133 00 00	45 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 57 41.00	065 24 00	18 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 44.00	133 18 00	43 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 57 46.70	186 30 00	22 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 57 49.00	067 06 00	18 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 51.00	133 30 00	42 16 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 57 58.50	068 42 00	18 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 57 59.10	133 54 00	40 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 58 04.70	184 00 00	21 30 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 58 07.40	134 00 00	39 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	19 58 10.50	070 48 00	17 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 58 14.50	014 46 00 *	84 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
14 AUG 1958 (CONT)							
BERLN SG GER	52 28 30 N	013 20 30	50	19 58 16.00	134 06 00	37 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 58 20.20	182 00 00	20 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 58 21.00	072 36 00	17 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 58 27.40	134 42 00	35 18 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 58 32.00	074 12 00	16 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 58 33.00	017 47 00 *	82 36 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 58 34.30	180 18 00	19 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 58 34.50	134 48 00	34 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 58 42.00	075 54 00	16 06 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 58 43.60	135 00 00	32 21 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 58 51.60	358 30 00	17 48 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 58 52.50	077 30 00	15 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 58 54.30	135 06 00	30 27 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 59 05.90	135 12 00	29 12 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 59 06.00	079 18 00	15 00 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 59 14.90	135 30 00	28 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 59 18.00	080 48 00	14 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 59 19.00	020 40 00 *	70 24 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	19 59 22.50	135 48 00	27 06 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 59 31.00	082 30 00	13 48 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 59 31.40	135 54 00	25 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 59 35.00	020 40 00 *	64 24 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	19 59 40.30	135 54 00	25 00 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 59 41.00	083 54 00	13 12 00	
BERLN SG GER	52 28 30 N	013 20 30	50	19 59 49.00	136 00 00	23 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 59 51.50	085 06 00	12 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 59 52.00	020 52 00 *	59 12 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	19 59 59.50	085 54 00	12 24 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 00 01.30	136 00 00	22 42 00	
BERLN SG GER	52 28 30 N	013 20 30	50	20 00 09.70	136 06 00	21 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 00 10.50	021 02 00 *	53 48 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 00 11.00	087 00 00	11 54 00	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 00 17.20	136 06 00	20 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 00 20.50	088 30 00	11 18 00	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 00 26.30	136 06 00	20 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 00 28.00	021 04 00 *	45 48 00 *	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 00 30.50	089 18 00	10 54 00	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 00 39.20	136 18 00	18 54 00	
PIC MIOI FR	42 56 12 N	000 08 32	2862	20 00 42.00	090 18 00	10 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 00 45.00	021 12 00 *	39 18 00 *	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 00 47.10	136 24 00	18 12 00	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 00 58.30	136 30 00	17 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 01 04.00	021 18 00 *	33 24 00 *	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 01 05.90	136 30 00	16 42 00	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 01 14.60	136 54 00	15 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 01 18.00	021 25 00 *	29 18 00 *	
BERLN-SG GR	52 28 30 N	013 20 30	50	20 01 25.50	137 00 00	15 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 07 15.16	010 07 00 *	65 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 07 50.59	010 13 00 *	69 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 09 36.00	017 09 36 *	85 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 09 56.73	020 15 00 *	81 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 10 30.43	021 10 00 *	70 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 10 47.71	021 21 00 *	64 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 10 58.94	021 33 00 *	60 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 11 14.49	021 30 00 *	56 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 11 34.36	021 29 00 *	51 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 11 59.42	021 21 00 *	41 36 00 *	
GRONNGN NETH	53 12 18 N	006 34 01		21 38 43.20	014 33 48 *	24 54 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 39 17.60	265 06 00	47 48 00	
CHELMSFO ENG	51 43 00 N	000 30 00		21 39 19.00	017 05 00 *	24 00 00 *	
RICHMOND ENG	54 24 00 N	358 18 00		21 39 49.00	018 10 00 *	09 00 00 *	
CHELMSFO ENG	51 43 00 N	000 30 00		21 40 45.00	019 10 00 *	02 00 00 *	
BERLN-SG GR	52 28 30 N	013 20 30	50	21 41 01.90	234 00 00	25 42 00	
BERLN-SG GR	52 28 30 N	013 20 30	50	21 41 15.60	230 54 00	25 18 00	
BERLN-SG GR	52 28 30 N	013 20 30	50	21 41 32.50	227 12 00	24 48 00	
RICHMOND ENG	54 24 00 N	358 18 00		21 41 35.00	020 22 00 *	01 00 00 *	
BERLN SG GER	52 28 30 N	013 20 30	50	21 42 20.00	217 36 00	22 54 00	
BERLN SG GER	52 28 30 N	013 20 30	50	21 42 33.70	215 06 00	22 12 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 43 19.10	168 42 00	23 12 00	
S FERNNOO SP	36 27 42 N	353 47 42	30	21 43 22.36	022 24 31 *	29 22 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
14 AUG 1958 (CONT)							
MONTREAL CAN	45 31 10 N	286 22 21	61	21 48 58.00	018 40 00 *	12 30 00 *	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 49 07.00	018 24 00 *	01 03 36 *	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 49 09.00	018 22 00 *	02 00 00 *	
15 AUG 1958							
CARDC CAN	46 47 10 N	288 43 45	91	01 00 41.20	023 59 00 *	59 30 00 *	
CARDC CAN	46 47 10 N	288 43 45	91	01 03 42.90	022 37 00 *	29 30 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	02 44 51.00	013 38 00 *	68 36 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 45 41.60	023 04 00 *	66 59 24 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	02 47 21.00	019 45 42 *	38 18 00 *	
PATERSON NJ	40 54 00 N	285 51 00	30	02 47 31.00	017 30 00 *	51 00 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	02 47 57.00	022 21 00 *	58 00 00 *	
PATERSON NJ	40 54 00 N	285 51 00	30	02 48 11.00	018 30 00 *	37 00 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	02 48 28.00	021 16 00 *	29 36 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	02 48 35.00	087 00 00	36 36 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	02 49 39.00	022 08 00 *	14 00 00 *	
PATERSON NJ	40 54 00 N	285 51 00	30	02 49 56.00	019 40 00 *	10 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 25 14.50	002 00 00 *	70 24 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	04 27 18.00	008 45 00 *	73 06 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	04 27 35.00	008 34 00 *	75 24 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	04 29 34.00	004 12 00 *	78 01 00 *	
EL PASO TFX	31 49 41 N	253 36 36		04 29 40.00	013 00 00	32 00 00	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	04 29 50.00	022 27 00 *	68 36 00 *	
GENVR A COLO	39 44 52 N	255 03 24	1625	04 29 51.00	043 30 00	72 00 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	04 30 02.00	276 42 00	32 00 00	
BTLSVL-A OKL	36 42 16 N	264 03 36	213	04 31 01.00	017 38 00 *	44 14 40 *	
WICHITA KAN	37 41 44 N	262 45 19	413	04 31 45.30	019 27 00 *	25 48 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	06 07 39.00	012 24 00 *	39 18 00 *	
WHITIER A CAL	33 58 40 N	241 58 25	149	06 13 14.00	016 18 00 *	46 30 00 *	
SAPPORTO J	43 04 49 N	141 22 13	20	11 14 47.00	000 06 00 *	73 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	11 18 39.00	023 55 00 *	29 00 00 *	
SUWA J	36 00 13 N	138 07 43	762	13 00 43.00	016 09 00 *	45 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	13 01 03.00	016 44 00 *	51 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	13 01 29.00	017 30 00 *	53 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	13 01 57.00	018 00 00 *	37 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 41 34.30	260 24 00	27 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 41 45.70	257 18 00	28 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 41 55.90	254 00 00	29 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 42 06.50	250 30 00	30 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 42 20.60	245 42 00	31 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 42 35.30	240 30 00	32 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 42 48.40	235 42 00	32 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 43 00.10	231 36 00	32 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 43 16.70	225 48 00	32 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 43 32.20	220 30 00	32 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 43 44.60	216 30 00	31 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 43 57.20	212 42 00	30 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 44 10.30	209 00 00	30 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 44 24.50	205 12 00	29 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 44 36.00	010 18 00 *	66 36 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 44 36.60	202 06 00	28 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 44 48.30	199 24 00	27 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 45 01.70	196 30 00	26 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 45 04.00	010 40 00 *	72 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 45 14.80	193 54 00	25 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 45 24.00	011 50 00 *	78 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 45 30.30	191 06 00	24 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 45 47.00	012 50 00 *	81 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 45 52.00	187 36 00	22 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 46 06.20	185 36 00	21 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 46 19.30	183 54 00	20 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 46 23.00	015 15 00 *	82 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 46 38.40	181 24 00	18 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 46 52.10	180 00 00	17 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 46 58.00	018 26 00 *	78 18 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 47 09.80	178 18 00	16 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 47 25.00	019 53 00 *	69 18 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 47 25.40	176 54 00	15 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 47 45.00	020 19 00 *	62 18 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 47 47.30	175 00 00	14 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
15 AUG 1958 (CONT)							
ATHENS GR	37 58 19 N	023 43 01	110	19 48 02.00	020 37 00 *	55 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 48 03.40	173 48 00	13 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 48 18.00	020 51 00 *	48 06 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 48 19.30	172 42 00	12 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 48 34.40	171 48 00	11 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 48 48.80	170 54 00	10 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 48 53.00	021 00 00 *	39 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 49 02.10	170 06 00	09 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 49 13.00	021 03 00 *	32 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 49 14.50	169 30 00	08 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 49 29.00	021 09 00 *	28 12 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 49 31.10	168 36 00	07 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 49 44.60	168 00 00	07 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	19 49 56.70	167 30 00	06 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 49 57.00	021 27 00 *	19 48 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 24 26.10	294 06 00	29 12 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 25 36.20	279 24 00	39 54 00	
MILLHILL ENG	51 37 00 N	359 46 00		21 26 21.40	015 14 00 *	35 36 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 26 27.50	250 48 00	47 18 00	
MILLHILL ENG	51 37 00 N	359 46 00		21 26 30.80	015 28 30 *	34 24 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 26 39.30	015 42 00 *	33 06 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 26 48.20	015 56 30 *	31 42 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 26 57.40	016 10 00 *	30 18 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 27 06.40	016 22 30 *	28 48 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 27 13.60	233 18 00	50 30 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 27 56.30	211 24 00	48 06 00	
MILLHILL ENG	51 37 00 N	359 46 00		21 28 17.00	017 52 00 *	14 12 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 28 29.00	018 00 00 *	12 24 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 28 35.10	018 08 00 *	10 36 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 28 43.60	018 15 00 *	08 48 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 28 44.30	194 06 00	41 48 00	
MILLHILL ENG	51 37 00 N	359 46 00		21 28 51.90	018 25 00 *	07 06 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 29 24.90	184 24 00	36 06 00	
S FERNDO SP	36 27 42 N	353 47 42	30	21 29 44.40	022 27 24 *	58 42 00 *	
FARNHAM ENG	51 12 00 N	359 12 00		21 29 45.00	019 09 00 *	02 30 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 30 13.40	176 54 00	29 48 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 30 59.20	172 06 00	24 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 31 49.30	168 24 00	20 06 00	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 32 48.00	013 58 00 *	46 30 00 *	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 32 59.25	014 12 21 *	45 06 00 *	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 33 46.60	015 35 00 *	42 30 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 34 34.60	283 24 00	55 12 00	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 34 40.20	016 50 00 *	32 03 00 *	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 34 49.00	016 55 00 *	31 00 00 *	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 35 47.20	017 25 00 *	20 26 00 *	
MONTREAL CAN	45 31 10 N	286 22 21	61	21 36 45.12	018 54 00 *	04 00 00 *	
16 AUG 1958							
MIL RAO MASS	42 37 03 N	288 30 28	155	00 48 19.00	007 24 00	20 42 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	00 51 44.00	062 42 00	28 54 00	1668
MIL RAO MASS	42 37 03 N	288 30 28	155	00 54 21.00	093 42 00	20 00 00	2233
MIL RAO MASS	42 37 03 N	288 30 28	155	02 31 13.00	318 00 00	14 24 00	2177
DUNLAP ONTAR	43 51 46 N	280 34 40	244	02 31 42.50	011 41 00 *	60 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 32 32.00	032 30 00	33 00 00	
AMES IOWA	42 01 43 N	266 20 59		02 32 43.00	000 16 13 *	61 37 26 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 33 12.00	044 30 00	34 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 33 17.00	019 20 00 *	88 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 33 37.00	022 45 00 *	83 00 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	02 33 37.70	015 14 00 *	33 30 00 *	
AMES IOWA	42 01 43 N	266 20 59		02 34 04.00	023 05 26 *	42 10 19 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	02 34 05.00	000 27 00 *	46 20 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 34 23.00	066 30 00	34 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 34 31.00	014 58 00 *	59 00 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	02 34 31.00	015 35 30 *	23 18 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	02 34 37.70	015 14 00 *	33 24 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 35 02.00	046 05 00	54 16 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 35 07.00	078 30 00	31 00 00	
N CANTON A O	40 55 54 N	278 32 40	366	02 35 33.00	020 40 00 *	45 08 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	02 35 35.30	017 33 00 *	12 36 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	02 35 56.00	250 00 00	61 00 00	1167

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION	SLANT RANGE IN KM
16 AUG 1958 (CONT)							
AMES A IOWA	42 01 59 N	266 22 00	305	02 36 09.00	091 30 00	26 00 00	
DAYTON R O	39 50 14 N	275 44 03	249	02 36 27.00	021 46 00 *	28 45 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 36 53.00	098 30 00	22 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 37 29.00	102 30 00	20 00 00	
BRISTOL TENN	36 35 03 N	277 50 31	527	02 37 35.00	090 00 00	48 15 00	
MIL RAD MASS	42 37 03 N	249 30 28	155	02 41 48.00	167 24 00	19 00 00	2580
ALMGROO A NM	32 52 23 N	254 02 57	1335	04 15 42.00	008 46 00 *	75 48 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 15 46.00	309 30 00	30 18 00	
ALMGROO A NM	32 52 23 N	254 02 57	1335	04 16 00.00	008 30 00 *	73 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 16 31.00	290 30 00	37 00 00	
DAYTON R O	39 50 14 N	275 44 03	249	04 17 12.00	014 41 00 *	25 50 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 17 15.00	276 30 00	43 30 00	
DAYTON R O	39 50 14 N	275 44 03	249	04 17 35.00	282 15 00	22 51 00	
OENVR A COLO	39 44 52 N	255 03 24	1625	04 17 42.00	044 45 00	72 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 17 59.00	267 30 00	49 00 00	
DAYTON R O	39 50 14 N	275 44 03	249	04 18 25.00	015 39 00 *	18 30 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	04 18 28.00	022 19 00 *	67 30 00 *	
DAYTON R O	39 50 14 N	275 44 03	249	04 18 42.00	013 45 00 *	17 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 18 44.00	238 30 00	50 00 00	
DAYTON R O	39 50 14 N	275 44 03	249	04 18 53.00	015 52 00 *	15 10 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	04 19 01.00	335 00 00	68 54 00	
AMRLLO B TEX	35 12 06 N	258 06 29	1130	04 19 11.50	020 12 00 *	46 42 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 19 46.00	211 30 00	46 30 00	
MEMPHIS TENN	35 09 26 N	270 08 46	85	04 20 00.00	270 00 00	49 30 00	
ASAHIKAWA J	43 46 27 N	142 21 50	113	11 03 18.00	022 12 00 *	58 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	11 03 55.00	000 28 00 *	57 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	11 04 04.00	077 41 00 *	40 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	11 04 05.00	042 06 00	34 30 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	11 04 18.00	000 06 00 *	40 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	11 05 06.00	023 37 00 *	43 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 26	58	11 05 24.99	023 25 36 *	40 08 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	15	11 06 17.00	023 46 00 *	29 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	12 45 40.00	010 56 00 *	70 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	12 46 22.00	014 57 00 *	23 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	12 46 38.00	012 04 00 *	77 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	12 46 51.10	310 42 00	28 18 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	12 48 09.00	016 00 00 *	59 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	12 48 26.00	016 10 00 *	66 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	12 48 28.50	018 22 00 *	71 00 00 *	
TAKAOKA J	37 06 38 N	138 15 22	23	12 48 43.00	016 40 00 *	34 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	12 49 13.00	257 00 00	48 00 00	
MIZUKAJOO J	36 00 56 N	139 59 18	12	12 49 13.00	270 00 00	51 00 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	12 49 26.00	017 40 00 *	37 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	12 49 29.40	271 12 00	54 48 00	
QITA J	33 36 06 N	131 11 57	4	12 49 38.00	019 55 00 *	43 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	12 49 47.00	018 10 00 *	30 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	12 49 56.80	256 54 00	57 18 00	
YATSUSHIRO J	32 30 21 N	130 36 15	3	12 50 03.00	043 00 00	72 00 00	
COPNGN 8 OEN	55 42 13 N	012 27 00	10	19 31 22.30	337 48 00	55 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 31 51.00	010 29 00 *	66 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 32 18.00	010 49 00 *	60 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 32 36.00	011 23 00 *	74 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 33 15.00	012 24 00 *	78 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 34 05.00	017 06 00 *	79 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 34 23.00	018 37 00 *	74 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 35 16.00	019 45 00 *	60 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 35 35.00	020 11 00 *	51 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 36 01.00	020 28 00 *	42 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 36 19.00	020 30 00 *	36 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 36 20.00	020 36 00 *	36 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 36 37.00	020 54 00 *	25 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 36 48.00	020 42 00 *	27 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 37 04.00	020 56 00 *	24 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 37 35.00	021 17 00 *	13 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 37 40.00	021 20 00 *	12 00 00 *	
GRONNGN NETH	53 12 18 N	006 34 01		21 13 08.60	014 25 00 *	22 00 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		21 13 43.00	267 00 00	47 00 00	
CROYOON ENG	51 18 00 N	359 53 00		21 14 31.50	017 05 00 *	12 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	21 14 34.70	231 18 00	49 12 00	
GRONNGN NETH	53 12 18 N	006 34 01		21 15 18.20	016 22 00 *	05 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
16 AUG 1958 (CONT)							
HANOVR C GER	52 23 58 N	009 43 14		21 15 18.20	016 06 30 *	17 12 00 *	
CROYDON ENG	51 18 00 N	359 53 00		21 15 20.50	017 31 00 *	18 30 00 *	
VLAROGN NETH	51 54 49 N	004 18 59		21 15 31.40	016 56 48 *	09 36 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		21 15 48.00	203 00 00	49 00 00	
HORSBROG ENG	50 53 00 N	000 15 00		21 17 34.00	176 00 00	33 00 00	
CROYDON ENG	51 18 00 N	359 53 00		21 19 24.90	019 01 00 *	- 05 30 00 *	
17 AUG 1958							
AMES A IOWA	42 01 59 N	266 22 00	305	00 40 53.60	244 00 00	49 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 17 34.00	358 00 00	21 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 18 01.00	004 00 00	24 30 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	02 18 19.80	014 43 00 *	66 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 18 36.00	012 00 00	29 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 19 12.00	021 30 00	32 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 19 41.00	031 00 00	34 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 20 17.00	043 00 00	36 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 20 23.00	000 30 00	88 05 00 *	
AMES IOWA	42 01 43 N	266 20 59		02 20 32.00	023 15 08 *	52 07 11 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	02 20 36.09	305 24 00	34 16 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 20 43.00	052 00 00	36 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 21 09.00	015 15 00	48 32 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 21 09.00	061 00 00	36 12 00	
AMES IOWA	42 01 43 N	266 20 59		02 21 17.00	022 48 16 *	40 58 18 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 21 24.00	021 43 00 *	70 15 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	02 21 24.00	015 27 00 *	29 48 00 *	
CHI CPLN ILL	41 51 56 N	272 23 35	194	02 21 26.60	021 57 00 *	52 48 18 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 21 36.00	069 00 00	34 48 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	02 21 51.00	000 00 00	66 15 00	
CAROC CAN	46 47 10 N	288 43 45	91	02 21 52.90	016 28 00 *	21 24 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 22 03.00	077 30 00	33 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 22 30.00	083 30 00	30 42 00	
N CANTON C O	40 52 35 N	278 35 20		02 23 02.00	020 28 30 *	36 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 23 05.00	091 00 00	28 00 00	
BRYN ATHN PA	40 08 00 N	284 56 00	85	02 23 23.00	018 30 00 *	36 00 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	02 23 26.30	234 36 00	59 24 00	
N CANTON A O	40 55 54 N	278 32 40	366	02 23 30.00	020 28 30 *	36 36 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	02 23 30.40	017 58 00 *	02 54 00 *	
TERRHAUT INO	39 31 38 N	272 36 10	155	02 23 36.00	090 00 00	42 28 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 23 41.00	096 30 00	24 48 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 24 08.00	022 30 00 *	22 50 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 24 18.00	101 30 00	22 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 24 53.00	105 30 00	19 12 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	02 26 28.60	178 42 00	34 42 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	02 29 02.40	168 48 00	18 36 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 04 50.00	270 00 00	29 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 01 19.00	309 30 00	18 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 02 03.00	305 00 00	23 06 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 02 38.00	300 30 00	28 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 02 44.00	022 25 00 *	31 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 03 04.00	300 48 00	31 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 03 51.00	285 00 00	38 54 00	
AMES IOWA	42 01 43 N	266 20 59		04 04 16.00	015 31 35 *	31 42 59 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 04 44.00	267 30 00	45 30 00	
LAWTON OKLA	34 39 44 N	261 35 47	358	04 04 44.00	331 01 00	43 38 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	04 04 50.00	270 00 00	29 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 05 10.00	256 00 00	48 12 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	04 05 11.50	015 43 18 *	17 35 00 *	
AMES IOWA	42 01 43 N	266 20 59		04 05 18.00	016 39 26 *	20 57 01 *	
AMES IOWA	42 01 43 N	266 20 59		04 05 53.00	017 11 54 *	14 01 23 *	
DAYTON B O	39 50 14 N	275 44 03	249	04 05 57.00	015 42 00 *	15 01 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	04 06 10.00	021 48 50 *	52 42 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 06 12.00	228 30 00	47 54 00	
ORGN PASS NM	32 25 24 N	253 26 51	1651	04 06 32.77	021 58 24 *	46 01 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	04 06 40.77	021 57 36 *	43 40 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	04 06 48.78	021 56 48 *	41 21 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	04 06 50.00	214 30 00	44 46 00	
AMES A IOWA	42 01 59 N	266 22 00	305	04 07 34.00	204 00 00	41 00 00	
WICHITA KAN	37 41 44 N	262 45 19	413	04 07 45.50	019 13 00 *	07 06 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	10 51 47.00	021 07 00 *	27 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 56 06.00	023 10 00 *	12 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 AUG 1958 (CONT)							
KAGOSHIMA J	31 31 34 N	130 31 47	13	12 35 13.00	018 39 00 *	74 00 00 *	
YAMAGATA J	38 15 16 N	140 20 59	151	12 35 27.00	270 00 00	45 00 00	
YATSUSHIRO J	32 30 21 N	130 36 15	3	12 35 50.00	018 00 00 *	46 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	12 36 02.00	016 48 00 *	43 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	12 36 21.00	297 00 00	80 00 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	12 36 30.00	017 26 00 *	35 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	12 36 40.00	018 15 00 *	36 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	12 37 37.00	060 00 00	75 00 00	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 40 42.52	019 07 00 *	80 48 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 41 07.69	019 55 48 *	75 25 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 41 58.00	020 35 48 *	62 13 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 17 37.50	009 54 00 *	60 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 18 04.50	010 16 00 *	64 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 18 57.50	010 45 00 *	67 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 19 05.00	010 58 00 *	72 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 19 16.00	011 14 00 *	73 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 19 33.50	011 54 00 *	76 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 19 51.00	012 08 00 *	78 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 20 13.00	015 03 00 *	81 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 20 17.00	015 00 00 *	79 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 20 54.50	017 57 00 *	74 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 21 01.00	018 23 00 *	72 20 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 21 10.00	018 48 00 *	69 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 21 19.00	019 03 00 *	67 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 21 22.50	018 59 00 *	67 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 22 22.00	020 04 00 *	46 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 22 25.00	020 03 00 *	45 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 22 37.50	020 10 00 *	42 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 22 41.50	020 15 00 *	40 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 22 45.50	020 24 00 *	33 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 23 17.00	020 30 00 *	29 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 23 59.00	020 39 00 *	15 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 24 00.00	020 40 00 *	15 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 24 00.50	020 41 00 *	15 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 24 19.50	020 44 00 *	10 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 24 46.50	020 54 00 *	02 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 25 07.50	020 59 00 *	02 00 00 *	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	20 58 47.00	295 00 00	30 00 00	
HORSBROG ENG	50 53 00 N	000 15 00		20 58 50.00	294 00 00	31 00 00	
GRONNGN NETH	53 12 18 N	006 34 01		20 59 46.10	014 20 00 *	21 30 00 *	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	20 59 52.00	280 00 00	44 00 00	
MILLHILL ENG	51 37 00 N	359 46 00		20 59 53.50	015 00 00 *	33 24 00 *	
RICHMONO ENG	54 24 00 N	358 18 00		21 00 20.00	016 21 00 *	19 30 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		21 00 20.50	015 39 00 *	29 24 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		21 01 22.00	235 00 00	52 00 00	
MILLHILL ENG	51 37 00 N	359 46 00		21 01 58.40	018 28 00 *	12 06 00 *	
CROYDON ENG	51 18 00 N	359 53 00		21 02 01.00	017 27 00 *	13 00 00 *	
RICHMONO ENG	54 24 00 N	358 18 00		21 02 03.00	018 01 00 *	02 00 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		21 02 07.30	015 45 54 *	07 00 00 *	
VLAROGN NETH	51 54 49 N	004 18 59		21 02 09.40	016 50 30 *	08 06 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		21 02 14.00	204 00 00	43 00 00	
MILLHILL ENG	51 37 00 N	359 46 00		21 02 33.80	017 59 00 *	05 24 00 *	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	21 03 27.00	184 00 00	37 00 00	
CROYDON ENG	51 18 00 N	359 53 00		21 03 46.50	018 43 00 *	04 30 00 *	
GRONNGN NETH	53 12 18 N	006 34 01		21 04 01.30	018 00 00 *	10 00 00 *	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	21 05 50.00	168 00 00	22 00 00	
HORSBROG ENG	50 53 00 N	000 15 00		21 06 35.00	166 00 00	18 00 00	
18 AUG 1958							
AMES A IOWA	42 01 59 N	266 22 00	305	02 04 52.00	011 12 00	26 18 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	02 04 59.52	021 38 18 *	62 59 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 05 36.00	022 42 00	31 24 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 06 12.00	034 42 00	34 12 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 06 34.50	008 00 00 *	88 40 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 06 57.02	049 42 00	35 36 00	
PATERSON NJ	40 54 00 N	285 51 00	30	02 07 06.00	013 27 00 *	56 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 07 20.00	011 18 00	41 24 00	
AMES IOWA	42 01 49 N	266 20 59		02 07 22.00	022 42 08 *	44 37 01 *	
AMES IOWA	42 01 49 N	266 20 59		02 07 40.00	022 33 29 *	40 06 17 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 07 41.08	064 42 00	35 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
18 AUG 1958 (CONT)							
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 07 42.80	021 41 24 *	54 20 00 *	
OAYTON B O	39 50 14 N	275 44 03	249	02 07 45.00	021 10 00 *	70 30 00 *	
OAYTON B O	39 50 14 N	275 44 03	249	02 08 08.00	021 10 00 *	62 15 00 *	
PITTSBGH PA	40 29 00 N	280 00 00	381	02 08 15.00	000 00 00	68 34 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 08 17.37	077 42 00	32 18 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	02 08 34.20	019 39 00 *	36 54 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	02 09 09.00	090 00 00	52 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 09 12.00	088 42 00	28 18 00	
OAYTON B O	39 50 14 N	275 44 03	249	02 09 19.50	021 15 00 *	38 15 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	02 09 21.50	020 15 50 *	36 52 00 *	
ARLINGTON VA	38 50 48 N	282 53 35	59	02 09 22.00	000 00 00	79 00 00	
ARLINGTON VA	38 50 48 N	282 53 35	59	02 09 22.17	000 00 00	84 00 00	
TERRHAUT INO	39 31 38 N	272 36 10	155	02 09 45.00	090 00 00	45 28 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 09 56.00	096 12 00	24 24 00	
GRNSBRO A NC	36 04 38 N	280 07 57	265	02 10 25.00	020 52 00 *	44 00 30 *	
BRYN ATHN PA	40 08 00 N	284 56 00	85	02 10 31.00	180 00 00	70 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 10 49.00	103 12 00	21 12 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	02 11 26.00	129 42 00	39 42 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	02 12 26.00	053 00 00	40 00 00	
OAYTON B O	39 50 14 N	275 44 03	249	02 12 40.00	021 28 00 *	05 20 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 46 25.00	292 12 00	73 18 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 46 49.00	256 12 00	81 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 48 04.00	168 12 00	66 12 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	03 50 09.00	002 00 00 *	88 30 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	03 50 27.00	022 37 00 *	85 24 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	03 50 31.77	021 33 00 *	51 12 00 *	
AMES IOWA	42 01 43 N	266 20 59	1339	03 50 54.00	015 46 06 *	27 34 25 *	
OENVR A COLO	39 44 52 N	255 03 24	1635	03 51 03.60	042 30 00	77 30 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	03 51 07.00	270 00 00	37 30 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	03 51 27.20	015 31 30 *	17 16 36 *	
KANCITY MO	39 02 02 N	265 25 03	259	03 51 51.00	270 00 00	54 30 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	03 52 32.00	021 33 00 *	51 12 00 *	
OANVILLE ILL	40 08 57 N	272 22 26	189	03 53 03.00	246 00 00	36 00 00	
WICHITA KAN	37 41 44 N	262 45 19	413	03 54 19.90	019 09 24 *	03 12 00 *	
SUNYVALE CAL	37 21 00 N	237 56 24	61	05 34 43.80	017 44 48 *	27 48 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	05 35 22.00	015 17 00 *	20 24 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	05 35 48.00	015 30 00 *	17 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 36 00.00	019 01 00 *	15 30 00 *	
MITAKA J	35 40 20 N	139 32 30	50	10 36 37.80	028 06 00	24 48 00	
MITAKA J	35 40 20 N	139 32 30	50	10 37 08.90	040 30 00	27 24 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	10 37 26.66	023 25 18 *	50 45 00 *	
SENOAI J	38 15 22 N	140 51 56	45	10 37 32.00	022 45 00 *	47 00 00 *	
MIZUKAI00 J	36 00 56 N	139 59 18	12	10 38 40.00	045 00 00	31 00 00	
MITAKA J	35 40 20 N	139 32 30	50	10 38 47.00	065 24 00	28 12 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	12 20 41.00	016 09 00 *	75 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	12 21 14.00	018 23 00 *	72 00 00 *	
SENOAI J	38 15 22 N	140 51 56	45	12 23 12.00	017 22 00 *	04 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	12 23 15.00	017 32 00 *	12 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	12 23 17.00	090 00 00	72 30 00	
SUWA J	36 00 13 N	138 07 43	762	12 23 35.00	018 05 00 *	08 00 00 *	
MIZUKAI00 J	36 00 56 N	139 59 18	12	12 23 53.00	225 00 00	52 30 00	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 27 26.16	020 08 40 *	67 19 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 27 51.50	020 24 00 *	60 13 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 28 16.97	020 34 30 *	52 30 48 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 28 25.30	020 37 15 *	50 00 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 28 42.18	020 39 36 *	45 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 03 33.00	009 57 00 *	60 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 04 09.00	010 12 00 *	65 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 04 52.00	011 00 00 *	71 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 04 53.00	010 48 00 *	70 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 05 11.50	011 30 00 *	75 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 05 38.00	012 54 00 *	78 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 06 04.50	015 18 00 *	79 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 06 11.00	015 51 00 *	78 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 06 16.50	016 46 00 *	76 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 06 50.50	018 20 00 *	70 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 07 16.50	019 05 00 *	63 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 07 45.00	019 35 00 *	52 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 08 09.50	019 48 00 *	45 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 08 29.00	020 02 00 *	38 12 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
18 AUG 1958 (CONT)							
ATHENS GR	37 58 19 N	023 43 01	110	19 08 56.00	020 10 00 *	31 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 09 48.00	020 29 00 *	14 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 09 57.00	020 35 00 *	10 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 10 43.00	020 43 00 *	05 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 10 44.00	020 35 00 *	02 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 11 10.50	020 53 00 *	- 02 18 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 45 37.40	014 18 12 *	24 56 24 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 45 46.40	014 28 00 *	23 44 24 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 45 55.40	014 37 48 *	22 38 24 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 46 04.40	014 47 30 *	21 44 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 46 13.40	014 57 12 *	20 34 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		20 46 22.50	015 07 00 *	19 14 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		20 46 49.20	015 35 36 *	16 04 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		20 46 58.10	015 44 48 *	14 24 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		20 47 06.80	015 54 00 *	13 54 00 *	
COPNGN A OEN	55 44 41 N	012 33 09		20 47 09.50	015 42 00 *	01 12 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		20 47 15.90	016 02 48 *	12 14 00 *	
BILTHVN NETH	52 08 27 N	005 12 46		20 47 24.60	016 11 36 *	10 24 00 *	
WOKING ENG	51 18 00 N	359 27 00		20 48 56.00	018 20 00 *	00 00 00 *	
WEESP NETH	52 18 12 N	005 02 21		20 49 56.06	018 05 30 *	- 08 36 00 *	
MADRID SP	40 24 30 N	356 18 43	655	20 51 59.61	019 00 00 *	10 00 00 *	
19 AUG 1958							
CLEVELND A O	41 29 46 N	278 12 16	220	01 50 41.00	337 00 00	29 00 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	01 50 47.00	332 45 00	23 49 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	01 50 48.00	332 27 00	23 29 24	
WASH WLSN OC	38 50 00 N	282 59 24		01 50 58.00	010 30 00 *	57 12 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	01 51 15.00	340 00 00	35 00 00	
WASH WLSN OC	38 50 00 N	282 59 24		01 51 36.00	011 00 00 *	62 24 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	01 51 49.50	013 42 00 *	64 24 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	01 51 51.00	343 00 00	43 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	01 52 11.00	020 30 00 *	89 00 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	01 52 26.00	345 48 00	51 36 00	
OK CY A OKLA	35 33 50 N	262 29 20	360	01 52 58.00	045 00 00	20 00 00	
WASH WLSN DC	38 50 00 N	282 59 24		01 53 20.00	014 30 00 *	71 00 00 *	
BRYN ATHN PA	40 08 00 N	284 56 00	85	01 53 38.00	015 24 00 *	59 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	01 53 39.00	020 57 00 *	61 15 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	01 54 09.00	090 00 00	57 30 00	
PATERSON NJ	40 54 00 N	285 51 00	30	01 54 13.00	013 22 00 *	56 00 00 *	
COLUMBUS O	40 01 49 N	276 57 46	229	01 54 31.00	020 35 00 *	46 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	01 54 32.00	020 40 00 *	50 45 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		01 54 37.00	017 54 00 *	57 24 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		01 55 00.00	018 23 00 *	50 06 00 *	
MILLBROOK NY	41 51 30 N	286 22 33	243	01 55 08.00	017 33 00 *	26 40 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		01 55 28.00	018 52 00 *	40 42 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	01 55 42.00	090 00 00	43 32 00	
CLEVELND A O	41 29 46 N	278 12 16	220	01 56 45.00	136 00 00	41 00 00	
PATERSON NJ	40 54 00 N	285 51 00	30	01 57 00.00	017 50 00 *	29 00 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	01 57 03.00	020 04 00 *	- 06 12 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		01 57 13.00	019 55 00 *	09 48 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	01 57 39.00	139 00 00	32 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	01 58 31.00	021 12 00 *	- 08 00 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	01 58 59.00	143 00 00	24 00 00	
WASH WLSN OC	38 50 00 N	282 59 24		01 59 09.00	020 29 00 *	- 11 36 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	01 59 17.00	020 55 00 *	- 15 00 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	03 22 45.00	025 21 00	35 40 00	
ALBUQ A NM	35 05 03 N	253 21 24	1520	03 35 13.50	017 15 00 *	88 30 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 35 19.00	023 58 00 *	55 30 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	03 36 15.00	278 00 00	17 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	03 36 20.00	014 28 00 *	23 15 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 36 24.00	309 48 00	43 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 36 59.00	253 00 00	47 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 37 08.00	268 00 00	20 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 37 35.00	232 00 00	48 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 38 11.00	222 00 00	46 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 38 20.00	256 00 00	22 12 00	
MEMPHIS TENN	35 09 26 N	270 08 46	85	03 38 43.50	270 00 00	47 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 38 46.00	211 00 00	43 00 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	03 39 01.00	236 30 00	35 30 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 39 22.00	245 00 00	22 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
19 AUG 1958 (CONT)							
AMES A IOWA	42 01 59 N	266 22 00	305	03 39 31.00	199 00 00	38 00 00	
OK CY A OKLA	35 33 50 N	262 29 20	360	03 39 49.00	019 04 00 *	11 00 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	03 39 50.30	019 01 00 *	01 45 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	03 39 59.00	237 00 00	21 00 00	
LAWTON OKLA	34 39 44 N	261 35 47	358	03 40 17.00	155 30 00	62 18 00	
BILOXI MISS	30 23 27 N	271 08 28	7	03 40 22.00	270 00 00	54 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 40 24.38	190 00 00	32 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 17 47.00	016 24 00 *	20 12 00 *	
SAN JOSE CAL	37 23 01 N	238 11 13	122	05 22 15.50	180 00 00	51 00 00	
MAUI HAWAII	20 42 36 N	203 44 23	3048	07 04 31.02	022 30 00 *	46 39 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	07 04 35.01	022 29 24 *	45 47 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	10 22 44.00	023 18 00 *	49 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	12 05 23.00	014 29 00 *	76 00 00 *	
HYO SV B 2 J	34 35 23 N	133 46 15	5	12 06 35.00	016 50 00 *	52 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	12 07 12.00	017 24 00 *	41 00 00 *	
HYO SV B 2 J	34 35 23 N	133 46 15	5	12 07 29.00	019 15 00 *	13 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	12 07 31.87	270 00 00	82 30 00	
KAGOSHIMA J	31 31 34 N	130 31 47	13	12 08 23.00	020 10 00 *	37 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	12 08 50.00	164 00 00	66 00 00	
MITAKA J	35 40 20 N	139 32 30	50	12 09 09.30	217 12 00	52 30 00	
HYD SV B 2 J	34 35 23 N	133 46 15	5	12 09 29.00	019 15 00 *	13 00 00 *	
FUCHU J	34 34 17 N	133 14 19	30	12 09 35.00	019 35 00 *	07 00 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 11 48.79	019 25 30 *	76 18 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 13 03.50	020 21 18 *	55 55 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 14 02.36	020 38 18 *	37 44 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 19 54.10	010 39 00 *	73 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 48 32.60	009 49 00 *	64 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 49 18.10	009 59 00 *	66 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 50 11.60	011 11 00 *	76 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 50 38.60	012 44 00 *	79 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 51 06.60	015 50 00 *	79 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 51 09.00	015 55 00 *	78 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 51 24.10	016 50 00 *	77 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 51 34.00	017 51 00 *	73 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 51 41.60	018 03 00 *	71 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 52 00.60	018 34 00 *	66 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 52 04.00	018 25 00 *	65 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 52 26.60	019 18 00 *	57 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 52 49.60	019 31 00 *	53 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 53 02.00	019 46 00 *	44 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 53 03.10	019 44 00 *	45 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 53 19.10	019 51 00 *	40 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 53 36.60	020 02 00 *	34 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 54 30.60	020 17 00 *	17 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 54 46.00	020 15 00 *	10 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 54 49.60	020 22 00 *	13 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 55 07.60	020 23 00 *	08 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 55 26.10	020 28 00 *	04 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 55 43.60	020 30 00 *	00 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 56 10.10	020 34 00 *	03 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 56 28.60	020 38 00 *	05 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 56 46.60	020 42 00 *	08 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 57 03.60	020 46 00 *	11 06 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 29 17.90	287 12 00	32 42 00	
BEXHILL ENG	50 51 00 N	000 30 00		20 29 36.00	294 00 00	32 00 00	
CHELMSFO ENG	51 43 00 N	000 30 00		20 29 45.00	014 51 00 *	29 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 30 19.50	268 18 00	42 54 00	
FARNHAM ENG	51 12 00 N	359 12 00		20 30 52.00	015 04 00 *	31 30 00 *	
BEXHILL ENG	50 51 00 N	000 30 00		20 31 05.00	262 00 00	46 00 00	
BATTERSE ENG	51 28 00 N	359 51 00		20 31 10.70	015 28 00 *	28 36 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 31 13.20	242 54 00	48 18 00	
HERSTMCMX ENG	50 52 01 N	000 20 16	32	20 31 32.00	248 00 00	50 00 00	
HORSBROG ENG	50 53 00 N	000 15 00		20 31 38.00	246 00 00	50 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 31 55.40	221 06 00	47 30 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 32 32.80	205 48 00	44 06 00	
HORSBROG ENG	50 53 00 N	000 15 00		20 32 41.00	209 00 00	49 00 00	
MILLHILL ENG	51 37 00 N	359 46 00		20 32 56.00	017 40 00 *	04 06 00 *	
BEXHILL ENG	50 51 00 N	000 30 00		20 33 24.00	198 00 00	43 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 33 27.70	189 54 00	36 54 00	
MILLHILL ENG	51 37 00 N	359 46 00		20 33 40.00	017 59 00 *	00 54 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
19 AUG 1958 (CONT)							
S FERNDO SP	36 27 42 N	353 47 42	30	20 33 48.38	021 31 48 *	62 52 01 *	
MAORIO SP	40 24 30 N	356 18 43	655	20 34 05.00	019 30 00 *	47 00 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 34 09.10	182 24 00	31 54 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 34 50.10	177 06 00	27 18 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 35 40.60	172 24 00	22 06 00	
MADRID SP	40 24 30 N	356 18 43	655	20 35 52.00	020 20 00 *	16 00 00 *	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	20 36 43.00	170 00 00	20 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	20 36 43.90	168 24 00	16 48 00	
MAORIO SP	40 24 30 N	356 18 43	655	20 37 07.00	020 50 00 *	- 09 00 00 *	
20 AUG 1958							
CLEVELND A O	41 29 46 N	278 12 16	220	01 34 21.00	334 00 00	20 00 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	01 35 57.00	334 28 00	28 43 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	01 36 51.50	014 32 00 *	63 05 00 *	
PATERSON NJ	40 54 00 N	285 51 00	30	01 37 19.00	012 46 00 *	56 00 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	01 37 29.30	014 53 00 *	29 18 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	01 37 33.00	021 40 00 *	70 15 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	01 37 42.60	021 20 00 *	54 03 12 *	
TERRHAUT INO	39 31 38 N	272 36 10	155	01 38 09.02	045 00 00	45 32 00	
CAROC CAN	46 47 10 N	288 43 45	91	01 38 39.70	016 14 00 *	17 42 00 *	
OANVILLE ILL	40 08 57 N	272 22 26	189	01 38 56.00	067 30 00	46 00 00	
CAROC CAN	46 47 10 N	288 43 45	91	01 39 23.00	016 56 00 *	09 24 00 *	
ARLINGTON VA	38 50 48 N	282 53 35	59	01 39 31.00	000 00 00	78 06 00	
BALTIMORE MD	39 24 28 N	283 24 35	144	01 39 52.00	000 00 00	88 00 00	
GRNSBRO A NC	36 04 38 N	280 07 57	265	01 40 36.00	020 29 00 *	42 30 00 *	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 42 20.00	027 16 12	43 47 42	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 42 30.00	030 57 00	45 18 54	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 42 40.00	034 09 00	46 24 00	
ELTHRA A BWI	25 16 03 N	283 41 12	36	01 42 50.00	037 46 30	47 32 24	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 43 00.00	041 37 12	48 31 30	
ELTHRA A BWI	25 16 03 N	283 41 12	36	01 43 10.00	045 36 00	49 26 06	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 43 20.00	049 56 42	50 05 06	
CLEVELND A O	41 29 46 N	278 12 16	220	01 43 26.30	138 00 00	25 00 00	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 43 30.00	048 21 00	50 10 30	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	02 56 23.00	017 52 00 *	04 04 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 20 39.00	276 06 00	41 48 00	
AMES IOWA	42 01 49 N	266 20 59		03 20 47.00	015 13 52 *	29 22 19 *	
CHI FAXN ILL	41 59 00 N	272 21 00	216	03 21 15.00	270 00 00	31 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 21 25.00	257 36 00	46 06 00	
AMES IOWA	42 01 49 N	266 20 59		03 21 32.00	016 01 29 *	21 30 20 *	
CLEVELND A O	41 29 46 N	278 12 16	220	03 21 51.00	266 00 00	25 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 22 00.00	242 36 00	47 36 00	
AMES IOWA	42 01 49 N	266 20 59		03 22 16.00	016 43 27 *	12 31 51 *	
AMES IOWA	42 01 49 N	266 20 59		03 22 25.00	016 50 51 *	10 46 28 *	
DAYTON B O	39 50 14 N	275 44 03	249	03 22 33.00	015 33 00 *	11 20 00 *	
OANVILLE ILL	40 08 57 N	272 22 26	189	03 22 45.00	252 06 00	35 36 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 22 52.00	221 06 00	45 42 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 22 54.00	251 12 00	25 54 00	
MEMPHIS TENN	35 09 26 N	270 08 46	85	03 23 19.00	270 00 00	48 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 23 29.00	208 36 00	41 54 00	
FT WTH A TEX	32 42 27 N	262 38 14	182	03 24 07.00	018 41 00 *	31 45 00 *	
DALLAS P TEX	32 51 10 N	263 14 29	172	03 24 10.00	018 17 00 *	29 40 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 24 22.00	196 06 00	35 18 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 24 32.00	232 00 00	25 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	03 24 48.00	192 06 00	32 42 00	
BILOXI MISS	30 23 27 N	271 08 28	7	03 24 59.00	270 00 00	54 00 00	
S AN RAFB TX	29 32 06 N	261 42 33	232	03 25 03.70	018 59 00 *	25 50 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	03 25 15.30	017 34 31 *	- 15 26 48 *	
AMES A IOWA	42 01 59 N	266 22 00	305	03 25 24.96	187 06 00	28 42 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 25 25.00	224 00 00	23 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	03 27 38.00	017 21 00 *	- 21 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	05 04 12.90	017 13 02 *	24 53 00 *	
ALMGDO-GS-NM	32 52 22 N	254 03 05	1339	05 05 03.00	014 46 00 *	22 06 00 *	
ALMGDO-GS-NM	32 52 22 N	254 03 05	1339	05 05 18.00	014 55 00 *	20 24 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	05 06 58.00	019 02 00 *	- 21 42 00 *	
DAVIS CAL	38 19 48 N	238 31 12		06 49 14.90	015 59 50 *	- 08 23 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	11 49 40.00	015 11 00 *	20 00 00 *	
MIZUKA100 J	36 00 56 N	139 59 18	12	11 51 23.00	270 00 00	50 00 00	
ISAHAYA J	32 51 41 N	130 03 08	70	11 52 00.00	019 40 00 *	45 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	11 52 50.00	009 00 00	71 00 00	
MUSASHINO J	35 42 58 N	139 34 35	75	11 52 58.20	225 00 00	54 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
20 AUG 1958 (CONT)							
TAIPEI TAIWN	25 02 42 N	121 30 02	22	11 53 48.70	022 50 00 *	42 18 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	11 54 11.00	020 27 00 *	11 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	11 54 28.00	019 20 00 *	04 00 00 *	
FUCHU J	34 34 17 N	133 14 19	30	11 54 35.00	019 48 00 *	03 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	13 35 18.00	015 18 00 *	10 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	13 36 18.00	260 00 00	19 00 00	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	13 37 22.10	015 58 30 *	27 10 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 55 41.32	019 01 30 *	79 44 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 57 39.30	020 24 24 *	20 45 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 58 34.07	020 36 12 *	30 58 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 32 40.00	009 51 00 *	62 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 33 07.00	010 10 00 *	63 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 33 45.00	011 06 00 *	74 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 33 59.00	010 55 00 *	76 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 34 28.00	011 49 00 *	77 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 34 46.00	013 15 00 *	79 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 35 00.00	014 50 00 *	80 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 35 04.00	015 17 00 *	79 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 35 22.00	016 48 00 *	77 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 35 47.00	018 05 00 *	72 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 35 48.00	018 11 00 *	71 47 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 35 50.00	018 20 00 *	68 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 36 06.00	018 46 00 *	66 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 36 26.00	019 10 00 *	60 06 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 36 50.00	019 32 00 *	52 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 37 04.00	019 41 00 *	45 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 37 06.00	019 37 00 *	44 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 37 37.00	019 50 00 *	35 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 37 38.00	019 56 00 *	34 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 37 59.00	019 50 00 *	33 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 37 53.00	019 58 00 *	30 24 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 38 27.00	020 05 00 *	20 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 38 57.00	020 15 00 *	12 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 39 23.00	020 20 00 *	04 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 39 26.00	020 15 00 *	04 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 40 00.00	020 23 00 *	00 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 40 12.00	020 24 00 *	00 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 40 17.00	020 25 00 *	01 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 40 53.00	020 27 00 *	04 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 41 10.00	020 37 00 *	10 12 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 41 12.00	020 26 00 *	12 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 41 30.00	020 39 00 *	12 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 41 47.00	020 42 00 *	14 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 42 05.00	020 45 00 *	16 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	19 38 57.00	020 18 00 *	11 30 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 14 42.20	014 10 48 *	24 04 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 14 51.20	014 20 48 *	22 56 24 *	
BUSSUM NETH	52 16 52 N	005 09 18		20 15 00.10	014 32 18 *	22 21 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 15 00.10	014 30 48 *	21 50 24 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 15 08.00	014 40 48 *	20 34 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		20 15 18.00	014 50 48 *	19 38 24 *	
FARNHAM ENG	51 12 00 N	359 12 00		20 15 22.00	015 33 00 *	30 00 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		20 16 03.70	015 40 24 *	13 02 00 *	
ABBEVILLE FR	50 07 30 N	001 49 42		20 16 18.00	014 00 00	48 00 00	
FARNBORO ENG	51 18 00 N	359 12 00		20 17 00.00	017 24 00 *	02 30 00 *	
HANOVR C GER	52 24 06 N	009 45 33		20 17 32.60	016 20 24 *	13 06 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		20 18 18.50	017 25 18 *	06 43 12 *	
WEESP NETH	52 18 12 N	005 02 21		20 18 51.55	017 47 42 *	12 03 00 *	
21 AUG 1958							
OAYTON B O	39 50 14 N	275 44 03	249	01 20 09.00	354 04 00	33 30 00	
MILLBROOK NY	41 51 30 N	286 22 33	243	01 20 10.00	013 12 00 *	55 35 00 *	
PITTSBGH PA	40 29 00 N	280 00 00	381	01 20 28.00	336 15 00	36 51 00	
WASH WLSN OC	38 50 00 N	282 59 24		01 20 31.00	011 04 00 *	65 24 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		01 21 53.00	014 23 00 *	72 24 00 *	
OAYTON B O	39 50 14 N	275 44 03	249	01 21 54.00	020 55 00 *	66 15 00 *	
OAYTON B O	39 50 14 N	275 44 03	249	01 22 56.50	020 48 00 *	46 40 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	01 22 58.00	018 36 00 *	28 48 00 *	
ST COLL PA	40 44 01 N	282 06 33	393	01 22 59.00	018 06 52 *	48 00 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		01 23 12.00	017 51 00 *	56 36 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
21 AUG 1958 (CONT)							
FT BELVR VA	38 45 30 N	282 48 42	95	01 23 18.00	000 00 00	74 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	01 23 37.00	020 42 00 *	33 05 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		01 24 07.00	018 45 00 *	40 00 00 *	
TERRHAUT INO	39 31 38 N	272 36 10	155	01 24 28.20	090 00 00	38 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	01 24 42.50	020 52 00 *	16 15 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		01 25 44.00	019 40 00 *	09 54 00 *	
OANVILLE ILL	40 08 57 N	272 22 26	189	01 26 56.00	117 00 00	30 30 00	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 27 20.00	054 01 48	49 42 54	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 27 50.00	066 40 12	50 43 30	
WASH WLSN OC	38 50 00 N	282 59 24		01 27 56.00	020 13 00 *	22 00 00 *	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 28 00.00	070 53 06	50 39 36	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 28 10.00	075 04 12	50 26 24	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 28 20.00	078 57 00	50 02 24	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 28 30.00	082 40 12	49 31 30	
ELTHRA A BWI	25 16 03 N	283 41 12	35	01 28 40.00	086 10 12	48 53 24	
ELTHRA A BWI	25 16 03 N	283 41 12	38	01 28 50.00	089 35 24	48 04 30	
WASH WLSN OC	38 50 00 N	282 59 24		01 29 39.00	020 26 00 *	22 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	03 05 05.50	278 18 00	24 35 00	
DAYTON B O	39 50 14 N	275 44 03	249	03 05 40.00	014 05 00 *	24 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	03 07 04.00	015 42 00 *	06 30 00 *	
MEMPHIS TENN	35 09 26 N	270 08 46	85	03 07 08.00	270 00 00	49 50 00	
S AN RAFB TX	29 32 06 N	261 42 33	232	03 08 59.10	019 50 42 *	29 24 00 *	
BRYAN TEX	30 38 14 N	263 39 58	92	03 11 14.30	020 12 00 *	15 30 00 *	
SACMTO E CAL	36 32 55 N	238 14 51	15	04 47 42.00	016 41 26 *	31 43 00 *	
SUNYVALE CAL	37 21 00 N	237 56 24	61	04 48 00.00	016 59 48 *	33 39 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 52 35.00	019 24 00 *	29 48 00 *	
HIMEJI J	34 50 25 N	134 41 24	25	11 33 46.00	319 12 00	51 30 00	
OITA J	33 36 06 N	131 11 57	4	11 35 26.00	019 08 00 *	42 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	11 35 35.00	018 15 00 *	34 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	11 36 01.30	243 48 00	58 24 00	
YATSUSHIRO J	32 30 21 N	130 36 15	3	11 36 14.00	090 00 00	69 00 00	
MITAKA J	35 40 20 N	139 32 30	50	11 36 21.30	232 18 00	57 46 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	11 36 25.00	018 12 00 *	22 00 00 *	
FUCHU J	34 34 17 N	133 14 19	30	11 36 07.00	019 36 00 *	04 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	11 38 47.00	020 34 00 *	03 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	13 17 52.00	014 38 00 *	16 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	13 18 31.40	014 57 00 *	39 06 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	16 13 10.84	222 18 00	51 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 17 23.00	011 00 00 *	78 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 17 27.00	010 48 00 *	76 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 17 28.50	336 00 00	32 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 18 05.00	347 00 00	40 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 18 15.00	014 40 00 *	82 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 18 32.00	353 00 00	46 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 19 02.00	018 05 00 *	71 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 19 05.00	018 20 00 *	70 36 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 19 05.00	004 00 00	56 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 19 23.00	018 55 00 *	65 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 19 51.50	028 42 00	68 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 20 06.00	019 30 00 *	51 42 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 20 23.00	019 35 00 *	46 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 20 29.50	062 42 00	70 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 20 56.00	019 48 00 *	32 48 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 21 05.00	089 06 00	64 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 21 50.00	115 24 00	55 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 22 17.00	020 10 00 *	11 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 22 23.00	020 03 00 *	20 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 22 43.00	020 18 00 *	03 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 22 53.00	020 15 00 *	02 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 22 59.50	128 00 00	42 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 23 34.50	131 48 00	36 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 24 19.70	133 06 00	30 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 24 24.00	020 27 00 *	04 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 24 40.00	020 32 00 *	12 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 24 56.50	136 06 00	26 24 00	
S FERNDO SP	36 27 42 N	353 47 42	30	20 01 27.57	021 15 36 *	54 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	20 02 36.40	274 48 00	19 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 03 21.40	268 36 00	21 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 03 57.40	257 48 00	22 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 05 08.40	247 42 00	22 48 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
21 AUG 1958 (CONT)							
ATHENS GR	37 58 19 N	023 43 01	110	20 06 00.90	236 30 00	23 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 06 56.40	226 48 00	22 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	20 07 40.40	220 24 00	19 48 00	
S FERNDO SP	36 27 42 N	353 47 42	30	21 45 22.60	015 45 30 *	53 04 00 *	
22 AUG 1958							
ARLINGTON VA	38 50 48 N	282 53 35	59	01 06 12.00	000 00 00	72 00 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	01 06 51.00	019 04 00 *	14 48 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 44 53.00	307 36 00	22 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 45 16.00	305 06 00	25 10 12	
AMES A IOWA	42 01 59 N	266 22 00	305	02 45 38.00	301 36 00	28 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 46 14.00	295 30 00	34 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 46 59.00	284 36 00	41 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	02 47 53.20	265 30 00	33 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 48 18.00	014 40 00 *	25 40 00 *	
AMES IOWA	42 01 49 N	266 20 59		02 48 28.00	015 57 43 *	20 46 24 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 48 30.00	272 49 00	27 12 00	
KANCITY MO	39 02 02 N	265 25 06	259	02 48 44.00	016 02 00 *	36 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 48 55.00	235 36 00	51 12 00	
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 49 23.90	015 45 11 *	07 57 24 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 49 58.00	211 36 00	46 18 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 50 12.00	015 38 00 *	05 20 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 50 23.00	015 47 00 *	04 05 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	02 50 35.00	018 21 16 *	11 42 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	02 50 53.00	197 36 00	41 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 51 04.00	194 27 36	38 01 48	
DAYTON B O	39 50 14 N	275 44 03	249	02 51 07.00	016 03 00 *	03 20 00 *	
OANVILLE ILL	40 08 57 N	272 22 26	189	02 51 13.00	220 42 00	54 54 00	
OANVILLE ILL	40 08 57 N	272 22 26	189	02 51 13.20	220 42 00	35 06 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 51 28.00	189 00 00	35 00 00	
BILOXI MISS	30 23 27 N	271 08 28	7	02 51 47.00	270 00 00	56 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 52 03.00	184 36 00	31 00 00	
EOINBURG TEX	26 18 20 N	261 49 39	23	02 52 25.00	059 00 00	65 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 52 34.00	182 03 36	27 43 12	
AMES A IOWA	42 01 59 N	266 22 00	305	02 52 49.00	179 36 00	26 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 53 42.00	179 36 00	21 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	02 54 02.00	175 42 36	19 39 36	
AMES A IOWA	42 01 59 N	266 22 00	305	02 54 19.00	173 36 00	18 12 00	
BRYAN TEX	30 38 14 N	263 39 58	92	03 50 06.72	018 20 00 *	51 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	04 30 20.10	016 18 34 *	37 06 00 *	
SUNYVALE CAL	37 21 00 N	237 56 24	61	04 31 28.80	017 29 00 *	26 09 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	04 32 33.00	017 00 00 *	23 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	11 16 20.00	302 18 00	41 12 00	
YATSUSHIRO J	32 30 21 N	130 36 15	3	11 19 00.00	090 00 00	66 30 00	
SAPORO J	43 04 49 N	141 22 13	20	11 20 01.00	017 44 00 *	18 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	11 20 08.00	020 04 00 *	28 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	11 21 45.80	180 42 00	35 48 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	11 21 58.00	019 30 00 *	07 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	13 00 50.00	014 39 00 *	14 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	13 03 20.00	015 46 00 *	04 00 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	15 55 26.00	219 42 00	04 48 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	15 57 05.00	228 12 00	24 48 00	1273
MIL RAO MASS	42 37 03 N	288 30 28	155	16 00 13.24	027 30 00	14 24 00	579
OAKLAND CAL	37 47 00 N	237 48 00	30	16 02 30.00	031 42 00	02 18 00	2043
OAKLAND CAL	37 47 00 N	237 48 00	30	16 12 10.00	014 19 00 *	48 20 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	16 13 22.00	016 33 00 *	22 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	17 59 57.00	011 00 00 *	81 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 00 14.80	350 06 00	38 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 00 37.00	014 50 00 *	83 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 00 51.30	355 54 00	46 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 02 29.80	046 24 00	73 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 03 14.80	082 48 00	63 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 04 08.30	108 48 00	54 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 05 01.30	122 48 00	44 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 05 56.30	128 48 00	35 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 06 34.00	020 25 00 *	08 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 06 41.30	131 00 00	30 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 07 07.00	020 30 00 *	12 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 07 35.30	134 00 00	24 24 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
23 AUG 1958							
MIL RAD MASS	42 37 03 N	288 30 28	155	00 45 05.18	314 18 00	26 00 00	1425
MIL RAD MASS	42 37 03 N	288 30 28	155	00 46 07.00	307 48 00	37 06 00	
DAYTON B O	39 50 14 N	275 44 03	249	00 47 59.00	054 27 00	52 02 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	00 48 11.00	262 18 00	63 18 00	1133
PATERSON NJ	40 54 00 N	285 51 00	30	00 48 42.00	017 17 00 *	37 00 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	00 49 08.00	019 56 00 *	24 24 00 *	1377
WASH WLSN DC	38 50 00 N	282 59 24		00 49 12.00	018 53 00 *	36 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 26	155	00 50 20.00	185 54 00	49 42 00	
WASH WLSN DC	38 50 00 N	282 59 24		00 51 59.00	019 37 00 *	09 00 00 *	2183
MIL RAD MASS	42 37 03 N	288 30 28	155	00 53 10.00	167 18 00	25 24 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	00 55 34.00	162 12 00	14 12 00	2983
DAYTON B O	39 50 14 N	275 44 03	249	02 30 31.00	014 32 00 *	23 00 00 *	
CHI CPLN ILL	41 51 58 N	272 23 35	194	02 31 17.90	015 31 29 *	09 56 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	02 31 19.00	250 00 00	39 06 00	
BRYAN TEX	30 38 14 N	263 39 58	92	02 31 46.70	018 14 00 *	61 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 32 22.00	015 45 00 *	06 30 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	02 32 58.50	015 47 00 *	03 12 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 33 19.00	016 10 00 *	04 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 33 25.00	016 14 00 *	05 00 00 *	
BILOXI MISS	30 23 27 N	271 08 28	7	02 33 52.00	270 00 00	59 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 34 02.00	016 37 00 *	09 45 00 *	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 34 30.00	260 30 00	64 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 10 28.00	015 16 00 *	27 00 00 *	
ALBUO S NM	35 03 18 N	253 23 30	1618	04 14 08.00	270 00 00	27 30 00	
TAKAOA J	37 06 38 N	138 15 22	23	10 57 28.00	013 54 00 *	49 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	10 58 41.00	015 44 00 *	08 00 00 *	
ISAHAYA J	32 51 41 N	130 03 08	70	11 00 15.00	019 52 00 *	34 00 00 *	
KOCHI J	33 33 25 N	133 30 35	30	11 02 05.00	019 28 00 *	04 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	17 43 49.40	044 48 00	61 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	17 44 51.90	088 24 00	58 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	17 45 36.90	107 00 00	51 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	17 46 03.40	114 18 00	46 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	17 46 35.90	119 42 00	42 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	17 47 07.40	122 36 00	37 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 29 51.30	008 00 00 *	73 42 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	19 01 30.14	300 00 00	28 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 27 26.90	263 36 00	26 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 29 32.40	239 00 00	25 42 00	
FARNHAM ENG	51 12 00 N	359 12 00		21 05 28.00	014 18 00 *	05 00 00 *	
24 AUG 1958							
MILLBROOK NY	41 51 30 N	286 22 33	243	00 27 38.01	012 05 00 *	59 20 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 11 51.00	272 00 00	31 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	02 12 03.00	014 38 00 *	19 45 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	02 13 19.00	263 05 00	33 00 00	
DALLAS P TEX	32 51 10 N	263 14 29	172	02 14 14.00	018 49 03 *	28 41 24 *	
BILOXI MISS	30 23 27 N	271 08 28	7	02 15 01.00	270 00 00	65 00 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	02 15 49.40	071 00 00	58 30 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	03 52 05.00	017 00 00 *	11 00 00 *	
ALBUO S NM	35 03 18 N	253 23 30	1618	03 55 07.00	270 00 00	31 00 00	
ALBUO-S NM	35 06 22 N	253 23 14	1565	03 55 48.00	015 10 00 *	10 36 00 *	
WAKE IS PAC	19 17 12 N	166 39 12	4	09 03 04.60	000 00 00	59 54 00	
ASAHIKAWA J	43 46 27 N	142 21 50	113	10 38 01.00	015 25 00 *	25 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	10 39 39.00	015 44 00 *	08 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 41 17.00	020 08 00 *	36 00 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 31 38.64	016 05 24 *	13 21 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 32 46.68	016 31 30 *	22 40 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	17 33 46.17	016 53 30 *	29 49 00 *	
EL GOLEA ALG	30 34 00 N	002 52 00		19 05 00.00	010 06 00	44 12 00	
EL GOLEA ALG	30 34 00 N	002 52 00		19 06 00.00	030 54 00	52 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 06 45.30	275 42 00	23 30 00	
EL GOLEA ALG	30 34 00 N	002 52 00		19 07 00.00	091 18 00	52 30 00	
EL GOLEA ALG	30 34 00 N	002 52 00		19 08 00.00	108 54 00	44 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 08 08.80	264 00 00	27 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 08 24.80	255 24 00	27 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 08 51.80	249 48 00	27 54 00	
EL GOLFA ALG	30 34 00 N	002 52 00		19 09 00.00	119 24 00	36 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 09 27.80	241 18 00	28 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 09 54.30	235 18 00	28 00 00	
EL GOLEA ALG	30 34 00 N	002 52 00		19 10 00.00	125 48 00	29 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 10 21.30	230 18 00	28 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
24 AUG 1958 (CONT)							
EL GOLEA ALG	30 34 00 N	002 52 00		19 11 00.00	130 00 00	23 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 11 06.80	221 42 00	26 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 11 42.30	216 00 00	23 48 00	
EL GOLEA ALG	30 34 00 N	002 52 00		19 12 00.00	133 00 00	18 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 12 37.30	209 42 00	21 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	19 13 09.80	207 00 00	19 30 00	
EL GOLEA ALG	30 34 00 N	002 52 00		19 14 00.00	137 06 00	10 24 00	
MADRID SP	40 24 30 N	356 18 43	655	20 46 36.00	013 54 00 *	18 40 00 *	
HOUNSLOW ENG	51 19 00 N	359 47 00		20 47 19.00	016 03 00 *	- 08 30 00 *	
FARNHAM ENG	51 12 00 N	359 12 00		20 50 12.00	016 23 00 *	- 19 00 00 *	
25 AUG 1958							
CURACAO NWI	12 09 04 N	291 03 28	6	00 18 01.59	020 54 00 *	36 58 00 *	
CURACAO NWI	12 09 04 N	291 03 28	6	00 21 23.85	021 17 06 *	- 04 52 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 10 21.00	007 38 30 *	67 42 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 11 20.00	005 34 42 *	59 12 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	01 51 32.00	277 46 00	31 32 00	
AMES IOWA	42 01 49 N	266 20 59		01 51 38.00	015 49 27 *	27 09 43 *	
AMES A IOWA	42 01 59 N	266 22 00	305	01 52 16.00	222 00 00	60 30 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	01 52 46.00	248 30 00	56 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	01 53 19.00	193 00 00	50 42 00	
BRYAN TEX	30 38 14 N	263 39 58	92	01 53 35.50	018 22 30 *	53 15 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	01 54 03.00	182 44 24	42 48 18	
DALLAS P TEX	32 51 10 N	263 14 29	172	01 54 12.50	018 52 24 *	33 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	01 54 48.00	176 00 00	36 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	01 55 01.00	175 28 12	34 25 12	
AMES A IOWA	42 01 59 N	266 22 00	305	01 56 09.02	170 06 36	26 16 48	
AMES A IOWA	42 01 59 N	266 22 00	305	01 57 19.00	165 26 24	16 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	01 58 53.00	164 03 00	12 37 12	
AMES A IOWA	42 01 59 N	266 22 00	305	02 53 55.00	185 00 00	44 30 00	
DAVIS CAL	38 19 48 N	238 31 12		03 33 47.40	017 07 00 *	30 51 00 *	
STOCTN A CAL	37 54 17 N	238 47 36	11	03 33 55.00	016 58 00 *	37 24 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	03 34 40.00	014 12 00 *	22 18 00 *	
DENVY A COLO	39 44 52 N	255 03 24	1625	03 35 00.00	253 00 00	28 00 00	
ALBUO S NM	35 03 18 N	253 23 30	1618	03 35 08.00	270 00 00	33 30 00	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 36 46.00	018 04 00 *	07 12 00 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	03 37 41.50	015 17 00 *	10 00 30 *	
DAVIS CAL	38 19 48 N	238 31 12		05 19 38.60	015 35 18 *	- 14 21 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	12 05 30.90	016 36 00 *	21 18 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	12 06 25.00	015 54 00 *	12 00 00 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	14 29 50.00	022 27 00 *	68 36 00 *	
SHIRAZ IRAN	29 38 40 N	052 11 33	1600	17 07 51.07	015 58 18 *	- 08 40 00 *	
SHIRAZ IRAN	29 38 40 N	052 11 33	1600	17 08 59.26	015 33 06 *	- 02 37 00 *	
SHIRAZ IRAN	29 38 40 N	052 11 33	1600	17 09 07.42	016 03 42 *	- 13 25 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 45 46.40	231 45 00	23 46 48	
ATHENS GR	37 58 19 N	023 43 01	110	18 46 27.00	013 56 00 *	18 54 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 47 06.40	263 54 00	29 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 47 33.40	258 12 00	30 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 48 00.40	250 48 00	31 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 48 18.90	246 12 00	31 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 48 44.90	240 00 00	31 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 49 09.40	233 00 00	33 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 49 39.40	228 00 00	29 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 50 06.40	222 00 00	28 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 50 24.90	218 06 00	26 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 50 51.40	214 36 00	25 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 51 18.40	210 12 00	24 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 51 45.40	207 48 00	23 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 52 30.90	202 00 00	20 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 53 06.90	198 18 00	18 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 53 43.40	194 48 00	15 12 00	
MAORIO SP	40 24 30 N	356 18 43	655	20 27 00.00	013 55 00 *	21 00 00 *	
HOUNSLOW ENG	51 19 00 N	359 47 00		20 27 28.00	015 17 00 *	- 08 30 00 *	
HOUNSLOW ENG	51 19 00 N	359 47 00		20 29 35.00	016 10 00 *	- 19 30 00 *	
MAORIO SP	40 24 30 N	356 18 43	655	20 29 40.00	016 00 00 *	- 15 00 00 *	
MAORIO SP	40 24 30 N	356 18 43	655	20 32 15.00	016 55 00 *	- 24 00 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	22 03 31.10	035 06 00	23 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 06 02.00	069 54 00	21 12 00	2020
MIL RAO MASS	42 37 03 N	288 30 28	155	22 08 27.00	090 48 00	14 06 00	2585
MIL RAO MASS	42 37 03 N	288 30 28	155	23 44 09.00	342 12 00	16 00 00	2070

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
25 AUG 1958 (CONT)							
MIL RAD MASS	42 37 03 N	288 30 28	155	23 47 04.00	317 18 00	49 00 00	1221
MIL RAD MASS	42 37 03 N	288 30 28	155	23 48 53.00	246 30 00	80 42 00	1043
MIL RAD MASS	42 37 03 N	288 30 28	155	23 52 10.84	157 48 00	36 18 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	23 54 35.00	154 54 00	20 06 00	2495
CURACAO NWI	12 05 50 N	291 09 46	7	23 57 01.15	020 58 54 *	38 03 00 *	

26 AUG 1958							
DANVILLE ILL	40 08 57 N	272 22 26	189	01 31 10.00	264 48 00	45 00 00	
BILOXI MISS	30 23 27 N	271 08 28	7	01 34 22.00	270 00 00	79 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	01 34 32.00	016 33 00 *	- 11 10 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	01 36 39.00	017 12 00 *	- 26 48 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	01 38 33.00	021 10 00 *	09 49 00 *	
DENV R A COLO	39 44 52 N	255 02 24	1625	03 13 03.00	266 15 00	28 30 00	
ALBUQ-GS NM	35 06 22 N	253 05 14	1565	03 13 37.00	014 11 00 *	24 06 00 *	
ALMGDO-GS NM	32 52 22 N	254 03 05	1339	03 13 55.00	013 53 54 *	29 06 00 *	
CUL CY B CAL	33 57 11 N	241 37 26	30	03 14 09.00	003 42 00 *	22 36 00 *	
ALBUQ S NM	35 03 18 N	253 23 30	1618	03 14 14.00	270 00 00	37 00 00	
WHTIER A CAL	33 58 40 N	241 58 25	149	03 14 15.00	017 16 00 *	37 00 00 *	
ALMGDO-GS NM	32 52 22 N	254 03 05	1339	03 14 32.00	014 15 00 *	25 30 00 *	
ALMGDO-GS NM	32 52 22 N	254 03 05	1339	03 15 08.00	014 55 54 *	16 54 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 15 33.00	165 53 24	63 26 06	
ALMGDO-GS NM	32 52 22 N	254 03 05	1339	03 16 01.00	015 18 24 *	10 24 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	03 16 13.70	018 59 48 *	- 10 49 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	03 21 03.21	016 24 00 *	- 03 00 00 *	
ALBUQ S NM	35 03 18 N	253 23 30	1618	03 24 32.00	180 30 00	08 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	04 58 00.00	015 14 12 *	- 10 19 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 41 44.72	016 01 48 *	18 07 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 41 56.72	016 03 45 *	15 20 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 42 27.73	016 22 30 *	09 49 00 *	
WAKE IS PAC	19 17 12 N	166 39 12	4	08 19 47.40	000 00 00	35 24 00	
KAGOSHIMA J	31 31 34 N	130 31 47	13	11 42 37.00	014 39 00 *	09 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	11 44 45.10	017 12 12 *	14 26 01 *	
PASAY CY PI	14 33 42 N	120 59 30	9	11 48 16.70	152 00 00	60 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	14 35 38.97	198 36 00	06 42 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	14 36 36.86	190 48 00	16 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 24 06.20	285 00 00	26 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 24 42.20	276 48 00	29 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 25 08.70	269 06 00	31 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 25 27.20	264 42 00	32 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 25 53.70	257 24 00	33 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 26 20.70	250 48 00	34 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 26 47.70	243 00 00	34 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 27 14.20	236 00 00	34 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 27 41.70	229 06 00	33 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 28 27.20	218 36 00	30 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 28 53.20	214 06 00	29 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 29 20.70	209 48 00	26 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 29 47.70	205 42 00	25 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 30 14.70	202 54 00	24 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 30 41.70	199 00 00	21 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 31 17.70	195 12 00	19 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 31 45.70	192 54 00	18 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 32 39.20	189 00 00	14 06 00	
MADRID SP	40 24 30 N	356 18 43	655	20 05 45.00	014 00 00 *	20 00 00 *	
MADRID SP	40 24 30 N	356 18 43	655	20 09 05.00	015 55 00 *	- 12 00 00 *	
S FERNND O SP	36 27 42 N	353 47 42	30	20 10 43.42	017 07 18 *	- 18 39 00 *	
MADRID SP	40 24 30 N	356 18 43	655	20 10 45.00	016 50 00 *	- 24 00 00 *	
CURACAO NWI	12 05 50 N	291 09 46	7	23 36 10.08	021 05 54 *	- 24 50 00 *	

27 AUG 1958							
COLUMBUS O	40 01 49 N	276 57 46	229	01 10 03.00	014 39 00 *	16 50 00 *	
MEMPHIS TENN	35 09 26 N	270 08 46	85	01 10 54.00	270 00 00	78 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	01 11 05.00	015 46 00 *	- 04 12 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	01 12 00.00	016 18 00 *	- 04 00 00 *	
EGLN AFB FLA	30 33 00 N	273 22 41		01 12 14.68	016 19 13 *	35 07 57 *	
N CANTON A O	40 55 54 N	278 32 40	366	01 12 27.00	016 06 00 *	- 10 30 00 *	
BILOXI MISS	30 23 27 N	271 08 28	7	01 12 33.00	270 00 00	88 00 00	
CLEVELND A O	41 29 46 N	278 12 16	220	01 13 04.00	201 00 00	27 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	01 13 31.58	226 42 00	16 36 00	
EGLN AFB FLA	30 33 00 N	273 22 41		01 13 35.04	017 16 12 *	15 11 34 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
27 AUG 1958 (CONT)							
MIL RAO MASS	42 37 03 N	288 30 28	155	01 54 38.30	246 48 00	18 30 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	02 50 27.00	012 30 00 *	41 24 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	02 50 46.80	270 00 00	31 00 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	02 50 54.00	012 49 24 *	39 24 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	02 51 39.00	013 57 00 *	29 00 00 *	
L ANGLS CAL	33 59 41 N	241 45 43	61	02 51 43.00	017 20 44 *	51 00 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	02 52 15.00	014 03 30 *	30 12 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	04 35 37.10	014 59 30 *	07 49 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	04 36 24.50	015 58 00 *	22 30 00 *	
WAKE IS PAC	19 17 12 N	166 39 12	4	07 56 26.10	000 00 00	25 54 00	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	11 21 46.00	017 13 18 *	36 57 00 *	
XAGOSHIMA J	31 31 34 N	130 31 47	13	11 27 23.00	017 38 00 *	43 00 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	18 02 23.70	272 36 00	30 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 02 59.70	261 36 00	37 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 03 25.70	253 48 00	39 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 03 52.20	245 00 00	39 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 04 20.20	236 06 00	39 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 04 47.20	228 36 00	37 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 05 14.70	221 06 00	36 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 05 41.70	215 06 00	34 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 06 17.20	208 36 00	31 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 06 44.20	203 42 00	29 12 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 07 11.20	200 42 00	27 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 07 47.20	195 24 00	24 18 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 08 14.70	193 00 00	22 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	18 08 59.70	189 00 00	19 00 00	
MAORIO SP	40 24 30 N	356 18 43	655	18 09 36.20	186 18 00	16 06 00	
MAORIO SP	40 24 30 N	356 18 43	655	19 43 10.00	014 05 00 *	20 00 00 *	
MAORIO SP	40 24 30 N	356 18 43	655	19 46 30.00	016 20 00 *	14 00 00 *	
MAORIO SP	40 24 30 N	356 18 43	655	19 48 00.00	016 55 00 *	24 00 00 *	
PT RICO A WI	18 10 31 N	292 54 42	408	23 12 30.00	081 56 24	38 21 00	
PT RICO A WI	18 10 31 N	292 54 42	408	23 13 00.00	089 42 36	36 49 12	
PT RICO A WI	18 10 31 N	292 54 42	408	23 13 30.00	096 27 36	34 54 00	
PT RICO A WI	18 10 31 N	292 54 42	408	23 14 00.00	102 23 24	32 34 12	
PT RICO A WI	18 10 31 N	292 54 42	408	23 14 30.00	107 28 48	30 10 48	
PT RICO A WI	18 10 31 N	292 54 42	408	23 15 00.00	111 48 48	27 50 24	
PT RICO A WI	18 10 31 N	292 54 42	408	23 16 00.00	118 46 48	23 14 24	
PT RICO A WI	18 10 31 N	292 54 42	408	23 16 30.00	121 37 12	20 56 24	
PT RICO A WI	18 10 31 N	292 54 42	408	23 17 00.00	124 09 00	18 48 00	
PT RICO A WI	18 10 31 N	292 54 42	408	23 17 30.00	126 19 48	16 45 00	
PT RICO A WI	18 10 31 N	292 54 42	408	23 18 00.00	128 15 36	14 49 48	
PT RICO A WI	18 10 31 N	292 54 42	408	23 18 30.00	130 00 36	12 56 24	
PT RICO A WI	18 10 31 N	292 54 42	408	23 19 00.00	131 33 36	11 09 36	
PT RICO A WI	18 10 31 N	292 54 42	408	23 19 30.00	132 58 12	09 26 24	
PT RICO A WI	18 10 31 N	292 54 42	408	23 20 00.00	134 15 00	27 50 24	
PT RICO A WI	18 10 31 N	292 54 42	408	23 20 30.00	135 16 48	06 45 36	
PT RICO A WI	18 10 31 N	292 54 42	408	23 21 00.00	136 27 36	04 47 24	
PT RICO A WI	18 10 31 N	292 54 42	408	23 21 30.00	137 27 36	03 19 12	
28 AUG 1958							
EGLN AFB FLA	30 33 00 N	273 22 41		00 00 49.24	016 28 04 *	44 11 13 *	
EGLN AFB FLA	30 33 00 N	273 22 41		00 00 50.57	017 41 53 *	15 08 40 *	
PT RICO A WI	18 10 31 N	292 54 42	408	00 10 00.00	205 24 00	21 30 00	
N CANTON B O	41 04 50 N	278 26 02		00 46 41.70	014 13 00 *	19 18 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	00 46 49.00	251 12 00	41 18 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	00 47 34.00	235 00 00	41 00 00	
CLEVELNO A O	41 29 46 N	278 12 16	220	00 48 19.00	220 00 00	39 00 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 48 40.00	309 57 00	27 05 06	
ELTHRA B BWI	25 27 00 N	283 29 00		00 49 10.00	306 23 24	30 48 36	
ELTHRA B BWI	25 27 00 N	283 29 00		00 49 40.00	301 52 48	35 14 24	
BILOXI MISS	30 23 27 N	271 08 28	7	00 49 46.00	090 00 00	80 00 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 50 10.00	296 45 00	39 09 00	
PT RICO A WI	18 10 31 N	292 54 42	408	00 50 30.00	303 18 00	14 18 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 50 40.00	289 51 00	43 15 36	
PT RICO A WI	18 10 31 N	292 54 42	408	00 51 00.00	300 12 00	16 36 00	
PT RICO A WI	18 10 31 N	292 54 42	408	00 51 30.00	307 00 00	19 00 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 51 40.00	271 36 36	50 15 36	
PT RICO A WI	18 10 31 N	292 54 42	408	00 52 00.00	303 12 00	21 12 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 52 10.00	259 29 24	51 45 00	
PT RICO A WI	18 10 31 N	292 54 42	408	00 52 30.00	288 54 00	23 24 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
28 AUG 1958 (CONT)							
PT RICO A WI	18 10 31 N	292 54 42	408	00 53 00.00	284 06 00	25 30 00	
PT RICO A WI	18 10 31 N	292 54 42	408	00 53 30.00	178 42 00	27 36 00	
GRO BHMA BWI	26 36 34 N	281 39 06		00 53 40.00	204 26 24	48 51 48	
PT RICO A WI	18 10 31 N	292 54 42	408	00 54 00.00	273 00 00	27 42 00	
GRO BHMA BWI	26 36 34 N	281 39 06		00 54 10.00	007 30 00	44 42 00	
GRO BHMA BWI	26 36 34 N	281 39 06		00 54 40.00	002 17 24	40 42 00	
CURACAO NWI	12 05 50 N	291 09 46	7	00 54 44.06	014 49 48 *	25 01 59 *	
GRO BHMA BWI	26 36 34 N	281 39 06		00 55 10.00	008 00 00	36 38 24	
PT RICO A WI	18 10 31 N	292 54 42	408	00 55 30.00	252 54 00	31 18 00	
ELTHRA B SWI	25 27 00 N	283 29 00		00 55 40.00	195 00 00	35 56 06	
GRO BHMA BWI	26 36 34 N	281 39 06		00 55 40.00	004 48 36	32 52 48	
PT RICO A WI	18 10 31 N	292 54 42	408	00 56 00.00	156 12 00	31 30 00	
GRO BHMA BWI	26 36 34 N	281 39 06		00 56 10.00	002 16 48	29 51 33	
PT RICO A WI	18 10 31 N	292 54 42	406	00 56 30.00	239 36 00	31 06 00	
CURACAO NWI	12 05 50 N	291 09 46	7	00 56 35.42	015 35 36 *	04 59 00 *	
GRO BHMA BWI	26 36 34 N	281 39 06		00 56 40.00	000 10 12	26 49 48	
GRO BHMA BWI	26 36 34 N	281 39 06		00 57 10.00	008 13 12	24 03 36	
PT RICO A WI	18 10 31 N	292 54 42	408	00 57 30.00	227 42 00	31 00 00	
PT RICO A WI	18 10 31 N	292 54 42	408	00 58 00.00	222 12 00	28 00 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 58 10.00	181 19 48	21 28 30	
PT RICO A WI	18 10 31 N	292 54 42	408	00 58 30.00	227 24 00	26 54 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 58 40.00	179 45 36	18 53 42	
PT RICO A WI	18 10 31 N	292 54 42	408	00 59 00.00	222 54 00	25 36 00	
ELTHRA B BWI	25 27 00 N	283 29 00		00 59 10.00	178 15 00	16 53 24	
CURACAO NWI	12 05 50 N	291 09 46	7	00 59 18.90	016 34 30 *	- 26 46 00 *	
ELTHRA B BWI	25 27 00 N	283 29 00		00 59 40.00	177 00 36	14 39 00	
ELTHRA B BWI	25 27 00 N	283 29 00		01 00 10.00	175 24 00	11 48 36	
HUANCAYO PER	12 01 27 S	284 40 28	3476	01 00 18.00	018 30 00 *	46 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	01 02 48.00	019 33 00 *	17 00 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	02 26 58.00	013 44 12 *	27 36 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	02 29 08.00	014 30 00 *	28 36 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	02 29 18.00	014 00 00 *	34 54 00 *	
ALBUO S NM	35 03 18 N	253 23 30	1618	02 29 26.00	020 00 00	48 30 00	
ALMGROO A NM	32 52 23 N	254 02 57	1335	02 30 37.00	015 16 24 *	18 54 00 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	02 30 48.00	015 46 00 *	08 00 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	02 30 55.00	015 29 24 *	15 06 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	02 30 56.44	015 30 00 *	17 25 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	02 31 00.76	015 33 24 *	16 28 59 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	02 31 04.71	015 36 18 *	15 32 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	02 31 22.00	015 47 30 *	08 30 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 57 35.85	017 11 30 *	- 06 30 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 58 16.40	017 31 48 *	- 04 09 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 58 31.87	017 37 05 *	- 06 58 01 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 00 32.39	015 15 24 *	10 52 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 01 14.13	016 28 42 *	- 15 33 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	16 01 14.50	015 41 18 *	01 59 00 *	
29 AUG 1958							
MIL RAO MASS	42 37 03 N	288 30 28	155	00 20 47.61	286 30 00	16 36 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	00 26 47.90	218 48 00	20 42 00	
HUANCAYO PER	12 01 27 S	284 40 28	3476	00 36 54.00	018 53 00 *	47 00 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	00 39 31.68	019 01 24 *	25 03 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	00 39 48.00	019 35 00 *	27 00 00 *	
ALMGROO B NM	32 54 49 N	254 02 54	1300	02 06 26.78	016 25 00 *	21 00 00 *	
OK CY A OKLA	35 33 50 N	262 29 20	360	02 12 55.00	016 00 00 *	- 21 05 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	03 48 41.10	014 58 36 *	- 08 13 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 33 45.93	017 45 54 *	- 03 59 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 34 05.92	017 55 06 *	- 00 54 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 34 18.38	017 59 42 *	04 00 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	15 38 40.43	016 28 54 *	- 08 29 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	15 39 35.84	016 53 54 *	- 18 13 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	15 40 01.41	017 04 18 *	- 22 09 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		19 47 42.00	012 07 00 *	- 59 00 00 *	
30 AUG 1958							
SSLVOR A BWI	24 07 23 N	285 32 53		00 03 00.00	285 46 48	61 20 24	
SSLVOR A BWI	24 07 23 N	285 32 53		00 03 30.00	268 28 12	65 26 24	
GR TRK A BWI	21 25 59 N	288 51 16		00 04 00.00	284 44 06	51 53 24	
SSLVOR A BWI	24 07 23 N	285 32 53		00 04 00.00	246 57 36	67 04 12	
GR TRK A BWI	21 25 59 N	288 51 16		00 04 30.00	267 37 12	55 15 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OP DECLINATION*	SLANT RANGE IN KM
30 AUG 1958 (CONT)							
SSLVOR A BWI	24 07 23 N	285 32 53		00 04 30.00	225 44 42	66 11 24	
GR TRK A BWI	21 25 59 N	288 51 16		00 05 00.00	253 56 24	56 58 12	
SSLVOP A BWI	24 07 23 N	285 32 53		00 05 00.00	209 40 30	61 59 24	
GR TRK A BWI	21 25 59 N	288 51 16		00 05 30.00	239 13 30	57 05 24	
SSLVOP A BWI	24 07 23 N	285 32 53		00 05 30.00	196 34 12	57 20 42	
GR TRK A BWI	21 25 59 N	288 51 16		00 06 00.00	225 48 54	55 13 12	
SSLVOR A BWI	24 07 23 N	285 32 53		00 06 00.00	191 14 24	51 53 24	
GR TRK A BWI	21 25 59 N	288 51 16		00 06 30.00	214 48 36	52 21 54	
SSLVOR A BWI	24 07 23 N	285 32 53		00 06 30.00	185 41 42	46 52 12	
GP TRK A BWI	21 25 59 N	288 51 16		00 07 00.00	206 14 24	48 44 43	
SSLVOP A BWI	24 07 23 N	285 32 53		00 07 00.00	182 10 12	42 18 54	
GR TRK A BWI	21 25 59 N	288 51 16		00 07 30.00	199 53 06	45 07 30	
GR TRK A BWI	21 25 59 N	288 51 16		00 08 00.00	194 28 30	41 15 00	
GR TRK A BWI	21 25 59 N	288 51 16		00 08 30.00	190 03 54	37 16 12	
GP TRK A BWI	21 25 59 N	288 51 16		00 09 00.00	186 32 24	33 41 24	
GR TRK A BWI	21 25 59 N	288 51 16		00 09 30.00	183 50 06	30 25 12	
GR TRK A BWI	21 25 59 N	288 51 16		00 10 00.00	181 40 12	27 14 24	
HUANCAYO PER	12 01 27 S	284 40 28	3476	00 10 18.00	019 04 00 *	52 30 00 *	
GR TRK A BWI	21 25 59 N	288 51 16		00 10 30.00	179 48 18	24 32 24	
GR TRK A BWI	21 25 59 N	288 51 16		00 11 00.00	178 16 48	21 51 54	
GP TRK A BWI	21 25 59 N	288 51 16		00 11 30.00	176 47 06	19 24 00	
GP TRK A BWI	21 25 59 N	288 51 16		00 12 00.00	175 36 54	17 09 54	
GR TRK A BWI	21 25 59 N	288 51 16		00 12 30.00	174 36 36	15 04 12	
HUANCAYO PER	12 01 27 S	254 40 28	3476	00 14 24.00	024 14 00 *	14 00 00 *	
APEQUIPA PER	16 23 05 S	288 27 55	2377	00 15 14.11	019 34 23 *	19 13 59 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 18 30.30	017 55 46 *	30 08 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 19 43.10	017 49 27 *	22 21 18 *	
OALLAS P TEX	32 51 10 N	263 14 29	172	01 41 39.00	013 55 00 *	18 39 20 *	
PUERLA P MEX	19 03 00 N	261 49 00	2200	01 45 42.30	015 51 24 *	26 00 00 *	
S AN RAFA TX	29 32 06 N	261 42 33	232	01 49 01.70	017 32 00 *	- 38 30 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	03 23 42.00	015 01 42 *	- 07 52 00 *	
UNION JOHBSG	26 10 55 S	028 04 30	1806	17 08 09.50	020 44 00 *	15 54 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 08 09.80	020 43 54 *	15 42 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 08 44.40	020 56 30 *	10 00 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 10 27.30	021 32 00 *	- 04 24 00 *	
UNION JOHBSG	26 10 55 S	028 04 30	1806	17 10 41.80	021 35 00 *	- 05 00 00 *	
AOLATO C AUS	34 44 00 S	138 40 00		19 24 42.00	009 40 00 *	- 23 00 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 54 17.85	020 26 00 *	11 36 00 *	
31 AUG 1958							
PUEBLA P MEX	19 03 00 N	261 49 00	2200	01 21 24.80	016 16 00 *	- 04 24 06 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 24 52.12	014 04 54 *	- 04 42 00 *	
AOLATO C AUS	34 44 00 S	138 40 00		10 04 06.00	021 50 00 *	- 14 30 00 *	
UNION JOHBSG	26 10 55 S	028 04 30	1806	18 26 24.00	017 12 00 *	- 23 48 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	18 27 24.20	017 28 00 *	- 41 00 00 *	
UNION JOHBSG	26 10 55 S	028 04 30	1806	18 27 25.20	017 29 00 *	- 37 06 00 *	
JOHBSG B S AF	26 11 42 S	028 08 25	1708	18 30 24.00	019 50 00 *	- 73 30 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 24 13.90	017 53 20 *	40 02 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 25 03.90	018 06 10 *	36 23 36 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 26 10.00	020 07 00 *	22 36 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 26 20.60	018 25 58 *	29 39 54 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 27 31.00	020 32 00 *	12 18 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 27 38.20	018 50 29 *	21 22 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 28 52.70	019 16 07 *	11 30 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 29 57.30	019 43 49 *	07 31 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 31 08.20	020 22 52 *	- 11 49 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 31 51.90	020 51 02 *	- 19 17 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 33 09.60	021 45 21 *	- 32 33 12 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 54 18.00	020 26 00 *	11 36 00 *	
1 SEP 1958							
LAPLAT C ARG	34 54 26 S	302 05 30		01 10 38.30	015 48 03 *	02 17 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		01 11 24.10	015 48 55 *	- 02 59 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		01 12 45.40	015 49 05 *	- 14 00 12 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	01 13 34.00	017 03 00 *	45 30 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		01 13 59.20	015 45 33 *	- 25 50 54 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	01 15 20.44	018 06 30 *	- 25 15 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	01 15 36.25	018 11 12 *	- 28 21 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 59 40.12	014 37 36 *	19 04 59 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	05 59 47.69	014 40 00 *	20 16 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	06 00 23.86	014 51 42 *	25 19 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1 SEP 1958 (CONT)							
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 57 07.00	013 28 00 *	- 01 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 58 25.00	013 54 00 *	- 10 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	11 03 44.00	015 19 00 *	- 40 00 00 *	
JOHNG E S AF	26 08 00 S	028 01 00	1672	17 51 38.40	018 01 00 *	- 30 24 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	17 56 26.90	016 55 24 *	10 36 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	17 59 29.80	017 56 00 *	- 30 12 00 *	
JOHNG C S AF	26 07 00 S	028 00 00	1615	17 59 37.80	018 05 00 *	- 30 18 00 *	
JOHNG R S AF	26 11 42 S	028 08 25	1708	18 00 04.00	018 14 00 *	- 36 48 00 *	
JOHNG C S AF	26 07 00 S	028 00 00	1615	18 00 26.20	018 29 00 *	- 42 18 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	18 01 28.90	021 04 00 *	- 17 18 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	18 01 58.70	019 42 00 *	- 62 36 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	18 04 50.60	000 21 54 *	- 72 22 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	19 46 18.00	015 30 00 *	- 62 54 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 56 25.00	016 03 41 *	41 52 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 59 30.00	018 55 12 *	26 01 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 01 50.90	019 47 59 *	07 46 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 02 20.50	020 00 41 *	03 12 12 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 02 43.00	020 11 05 *	- 00 24 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 04 08.50	020 56 31 *	- 14 35 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 04 50.30	021 21 47 *	- 20 01 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 04 57.30	021 26 12 *	- 22 01 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 05 08.00	021 32 56 *	- 23 38 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 05 46.10	021 58 40 *	- 28 37 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 07 39.80	023 17 10 *	- 39 20 18 *	
2 SEP 1958							
HUANCAYO PER	12 01 27 S	284 40 28	3476	00 38 10.00	016 18 00 *	- 20 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	00 40 10.00	016 53 00 *	- 47 00 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 42 54.30	015 48 40 *	04 36 48 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	00 45 01.72	017 32 48 *	- 76 22 01 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 45 10.30	015 53 41 *	- 14 17 24 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	00 45 20.00	017 33 00 *	- 37 24 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 46 40.10	015 53 01 *	- 30 58 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 47 46.40	015 49 11 *	- 45 09 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 47 54.40	015 48 32 *	- 46 56 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 48 02.70	015 46 50 *	- 46 45 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 49 05.80	015 33 58 *	- 62 37 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 49 32.70	015 22 06 *	- 65 10 12 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	03 46 47.60	014 00 15 *	- 16 40 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	03 49 45.90	014 47 27 *	- 20 55 00 *	
ADLATO C AUS	34 44 00 S	138 40 00		09 09 54.00	022 02 00 *	- 14 30 00 *	
ADLATO C AUS	34 44 00 S	138 40 00		09 54 22.02	011 43 00 *	00 47 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 27 44.00	012 46 00 *	- 10 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 29 24.00	013 26 00 *	- 02 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 33 58.00	014 57 00 *	- 32 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 35 27.00	015 18 00 *	- 40 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 37 30.00	015 57 00 *	- 50 00 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	10 43 56.10	033 00 00	20 18 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 44 45.40	039 00 00	22 12 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 45 56.90	049 24 00	26 30 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 47 08.60	061 30 00	28 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 48 18.80	074 48 00	29 30 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 50 05.91	017 43 48 *	- 35 22 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 51 10.37	018 21 24 *	- 50 55 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	10 52 06.80	112 27 00	19 07 00	
WOOMER AUS	31 06 06 S	136 46 54	162	10 52 08.83	011 15 00 *	17 06 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 53 53.88	022 40 00 *	- 74 31 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 55 13.72	012 55 48 *	09 18 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	10 55 14.10	129 18 00	00 18 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 27 00.13	311 30 00	29 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 27 00.92	311 18 00	29 36 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 27 28.00	310 06 00	31 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 30 11.60	285 30 00	54 06 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 30 57.80	268 24 00	59 30 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 31 07.40	264 24 00	60 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 33 59.90	180 48 00	49 30 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 35 30.20	173 12 00	34 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 35 55.68	172 06 00	31 54 00	
WMERA MT AUS	31 06 09 S	136 46 54	160	12 37 33.00	165 12 00	21 18 00	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 31 19.80	018 40 18 *	- 27 12 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	19 14 30.20	016 03 00 *	- 19 42 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
2 SEP 1958 (CONT)							
PRET R S AF	25 43 43 S	028 12 42	1311	19 14 30.42	014 27 00 *	- 30 42 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	19 14 30.70	014 27 00 *	- 30 42 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	19 17 42.30	016 12 00 *	- 63 35 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 36 46.10	021 35 42 *	- 19 33 12 *	
GR TRK B BWI	21 43 00 N	288 45 00		23 58 30.14	264 17 06	20 23 24	
GR TRK B BWI	21 43 00 N	288 45 00		23 59 00.00	259 17 24	20 50 24	
GR TRK B BWI	21 43 00 N	288 45 00		23 59 30.00	254 23 16	21 21 00	
3 SEP 1958							
GR TRK B BWI	21 43 00 N	288 45 00		00 00 00.00	249 32 24	21 23 06	
GR TRK B BWI	21 43 00 N	288 45 00		00 00 30.00	244 25 12	21 26 42	
CURACAO NWI	12 05 50 N	291 09 46	7	00 03 50.66	014 10 42 *	- 19 25 00 *	
CURACAO NWI	12 05 50 S	291 09 46	12	00 04 46.84	014 23 30 *	- 27 26 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	00 08 21.00	016 27 00 *	06 30 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	00 10 35.00	017 13 00 *	- 28 00 00 *	
AREQUIPA PER	16 23 05 S	286 27 55	2377	00 13 48.57	017 16 48 *	- 53 30 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	00 13 53.00	017 09 00 *	04 36 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	00 14 20.54	017 33 47 *	- 59 26 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	00 15 13.00	017 33 00 *	- 11 30 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	02 01 12.00	014 11 00 *	- 42 54 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	02 02 13.00	013 53 00 *	- 50 18 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 18 16.70	017 29 30 *	- 00 07 58 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 19 21.50	017 35 30 *	- 04 41 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 22 22.08	019 35 12 *	- 50 25 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 22 57.63	019 53 36 *	- 53 28 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 33 10.46	020 10 32 *	- 56 11 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	11 57 24.60	324 07 00	26 21 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 58 31.70	321 42 00	34 59 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 03 43.50	192 35 00	68 51 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 05 20.00	169 26 00	48 36 00	
WOOMER AUS	31 06 06 S	136 46 54	162	12 05 48.19	021 03 73 *	- 43 59 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	12 06 04.60	019 21 06 *	- 46 12 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	12 06 34.80	163 33 00	36 20 00	
PRET B S AF	25 43 43 S	028 12 42	1311	16 55 34.60	015 50 00 *	41 54 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 00 44.10	018 34 00 *	- 03 00 00 *	
JOHGB B S AF	26 11 42 S	028 08 25	1708	17 02 34.00	019 34 00 *	- 25 00 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 03 05.00	019 13 00 *	- 19 30 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 04 11.20	020 44 00 *	- 44 42 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 07 01.40	023 17 00 *	- 57 20 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	18 45 53.00	014 22 00 *	- 37 12 00 *	
JOHGB B S AF	26 11 42 S	028 08 25	1708	18 46 25.50	014 16 36 *	- 41 54 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	18 47 45.60	013 52 00 *	- 54 18 00 *	
JOHGB B S AF	26 11 42 S	028 08 25	1708	18 48 38.50	013 39 36 *	- 60 12 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	18 51 56.60	009 18 00 *	- 74 36 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	23 41 59.13	017 05 48 *	- 16 22 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	23 42 14.66	017 12 12 *	- 20 24 00 *	
4 SEP 1958							
WASH WLSN DC	38 50 00 N	282 59 24		10 01 00.00	010 53 00 *	49 36 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	11 25 13.40	335 48 00	15 08 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 26 00.00	335 50 00	18 24 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 27 07.70	335 53 00	25 23 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 27 18.50	335 58 00	26 32 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 27 58.70	336 01 00	30 49 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 28 54.60	336 14 00	38 52 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 30 00.00	336 31 00	48 40 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 35 13.40	152 38 00	51 32 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 36 59.60	152 30 00	32 59 00	
LAPLAT C ARG	34 54 26 S	302 05 30		23 11 12.00	015 42 04 *	32 36 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 14 45.10	016 20 19 *	13 36 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 15 01.20	016 24 09 *	11 29 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 16 20.50	016 42 01 *	- 00 29 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 16 40.20	016 46 37 *	- 04 27 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 17 12.00	016 55 06 *	- 10 53 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 17 52.30	017 08 35 *	- 20 36 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 18 24.40	017 20 50 *	- 28 03 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 19 05.50	017 41 21 *	- 38 46 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 20 33.40	018 56 52 *	- 60 15 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 21 27.80	020 25 54 *	- 69 13 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 21 30.50	020 32 35 *	- 69 36 30 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
4 SEP 1958 (CONT)							
LAPLAT C ARG	34 54 26 S	302 05 30		23 22 21.10	022 31 56 *	- 72 46 12 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 23 48.20	001 13 40 *	- 69 03 24 *	
5 SEP 1958							
LAPLAT C ARG	34 54 26 S	302 05 30		08 12 23.70	007 09 15 *	- 00 13 54 *	
PERTH AUS	32 00 07 S	115 51 10	5	10 54 51.20	345 48 00	17 18 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 55 11.40	346 13 00	19 08 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 56 40.30	349 12 00	27 30 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 56 44.30	349 12 00	28 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 57 45.00	352 00 00	35 24 00	
PERTH AUS	32 00 07 S	115 51 10	5	10 58 55.20	357 42 00	44 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 01 02.60	031 54 00	67 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 03 12.90	117 24 00	61 12 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 03 44.30	126 12 00	54 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 04 33.20	134 00 00	45 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 05 32.40	132 24 00	36 24 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 06 26.00	142 00 00	29 06 00	
ADLAID C AUS	34 44 00 S	138 40 00		11 06 55.00	014 00 00 *	- 60 00 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	11 07 03.30	144 00 00	24 36 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 07 11.60	144 06 00	23 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 08 29.60	146 18 00	15 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 09 15.20	147 06 00	11 36 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 42 54.80	264 54 00	21 54 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 43 11.00	262 36 00	22 49 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 43 12.90	262 36 00	23 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 43 38.90	258 36 00	24 12 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 45 08.50	243 24 00	27 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 45 31.50	239 18 00	27 06 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 46 59.30	222 00 00	26 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 47 35.80	215 18 00	25 54 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 48 10.40	209 18 00	24 24 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 49 50.90	193 42 00	19 12 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 51 16.20	183 12 00	13 54 00	
PERTH AUS	32 00 07 S	115 51 10	5	12 52 01.90	179 00 00	11 24 00	
MELBRNE AUS	37 49 54 S	144 58 24	29	19 21 25.00	180 00 00	57 00 00	
LAPLAT C ARG	34 54 26 S	302 05 30		22 49 16.10	020 04 32 *	- 52 52 00 *	
6 SEP 1958							
ADLAID C AUS	34 44 00 S	138 40 00		10 33 24.00	014 57 00 *	- 43 00 00 *	
MELBRNE AUS	37 49 54 S	144 58 24	29	10 40 09.95	180 00 00	20 00 00	
ADLAID C AUS	34 44 00 S	138 40 00		11 06 55.29	014 00 00 *	- 60 00 00 *	
PPET R S AF	25 43 43 S	028 12 42	1311	17 14 11.20	015 38 00 *	- 66 00 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 15 12.00	019 15 27 *	- 18 57 16 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 16 21.00	019 56 58 *	- 35 32 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 18 06.50	021 42 29 *	- 49 36 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 19 19.10	022 58 37 *	- 53 04 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 57 29.00	014 17 54 *	- 27 52 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 59 09.60	013 56 20 *	- 44 37 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 59 43.20	013 44 24 *	- 51 14 36 *	
7 SEP 1958							
LAPLAT C ARG	34 54 26 S	302 05 30		00 01 16.50	012 37 25 *	- 66 16 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 02 07.50	011 22 41 *	- 72 02 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 02 37.20	010 23 18 *	- 73 51 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 03 37.50	008 15 03 *	- 73 41 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 03 57.50	007 41 44 *	- 72 35 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 04 36.80	006 50 44 *	- 69 54 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 05 57.40	005 53 44 *	- 63 07 06 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 58 45.20	283 31 48	47 14 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 58 51.59	282 01 12	46 08 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 01.17	279 31 12	49 19 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 09.26	277 08 24	50 16 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 19.62	274 15 36	51 34 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 29.34	271 07 12	52 37 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 35.86	268 57 36	53 22 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 47.34	264 40 12	54 27 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 59 53.76	262 14 24	55 09 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 03.38	258 11 24	55 52 48	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 00 08.92	259 54 00	55 30 00	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 00 09.00	259 00 00	55 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
7 SEP 1958 (CONT)							
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 12.28	254 25 48	56 28 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 18.57	251 37 12	56 49 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 24.86	248 36 00	57 07 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 31.64	245 30 00	57 21 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 39.44	241 40 12	57 33 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 47.32	238 01 12	57 36 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 00 57.08	233 15 00	57 30 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 00.03	232 00 00	57 27 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 08.42	227 45 00	57 11 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 17.34	223 45 00	56 44 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 25.30	220 10 48	56 12 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 35.14	215 58 12	55 25 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 42.74	212 45 00	54 43 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 01 51.72	209 10 12	53 49 48	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 02 00.00	015 58 00 *	- 62 00 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 02.17	205 06 00	52 38 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 11.45	202 19 48	51 32 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 18.17	200 07 12	50 42 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 21.93	198 52 12	50 09 36	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 02 24.00	016 00 00 *	- 69 00 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 25.00	197 18 00	49 21 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 34.31	195 23 24	48 27 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 41.72	193 27 36	47 30 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 02 51.20	191 10 48	46 27 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 00.13	188 57 00	44 50 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 07.79	187 19 12	43 38 24	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 03 08.00	016 40 00 *	- 77 30 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 15.60	185 45 36	42 34 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 20.16	184 55 12	41 58 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 26.46	183 43 48	41 02 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 33.16	182 25 12	40 02 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 39.98	181 21 36	39 04 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 45.94	180 25 12	38 16 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 03 52.66	179 23 24	37 19 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 04 00.39	178 14 24	36 13 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 04 08.94	176 57 36	34 55 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 04 18.62	175 51 00	33 46 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 04 28.41	174 43 48	32 30 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 04 39.18	173 27 36	31 06 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 04 47.08	172 37 12	30 09 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 04 58.74	171 33 00	28 41 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 05 01.03	169 25 24	26 04 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 05 09.11	168 53 24	25 08 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 05 39.13	168 06 36	24 03 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 05 48.07	167 23 24	23 08 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 05 57.46	166 50 24	22 07 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 06 08.09	166 05 24	21 00 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 06 21.32	165 10 12	19 34 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 06 28.75	164 48 00	18 59 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 06 33.91	164 32 24	18 29 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 06 44.04	163 58 48	17 32 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 06 52.71	163 30 00	16 45 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 01.24	163 03 00	16 03 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 10.99	162 37 12	15 04 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 20.49	161 10 12	14 20 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 28.75	161 47 24	13 34 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 37.61	161 21 00	12 54 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 44.32	161 04 48	12 12 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 50.38	160 48 36	11 51 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 07 58.75	160 29 24	11 15 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 08 07.70	160 03 36	10 27 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 08 22.70	159 32 24	09 24 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 08 32.48	159 13 48	08 32 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 08 42.52	158 53 24	07 59 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 08 52.52	158 28 48	07 17 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 09 03.00	158 09 36	06 30 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 09 20.71	157 36 00	05 23 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 09 28.50	157 20 24	04 51 36	
LAPLAT C ARG	34 54 26 S	302 05 30		23 23 17.00	014 38 19 *	- 16 02 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 25 30.60	014 24 54 *	- 35 15 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
7 SEP 1958 (CONT)							
LAPLAT C ARG	34 54 26 S	302 05 30		23 25 44.60	014 23 29 *	- 42 07 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 29 02.00	010 40 57 *	- 79 29 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 29 35.80	008 35 38 *	- 80 00 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 29 57.20	007 26 45 *	- 78 57 00 *	
8 SEP 1958							
SALSBURY AUS	34 43 58 S	138 38 47	32	09 23 12.62	317 27 03	36 16 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 23 20.75	316 59 09	37 20 20	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 23 29.93	316 24 03	38 36 46	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 23 38.67	315 46 51	39 56 16	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 23 46.74	315 12 46	41 12 07	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 23 57.47	314 16 19	42 46 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 24 10.25	313 16 15	44 53 52	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 24 15.68	312 40 48	45 50 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 24 24.63	311 48 03	47 19 15	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 24 32.66	310 48 00	48 41 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 24 41.60	309 43 40	50 23 02	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 25 00.23	307 55 26	53 45 21	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 25 09.97	305 14 02	55 43 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 25 17.94	303 37 33	57 10 40	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 25 28.12	301 22 48	59 12 07	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 25 36.89	299 58 48	60 57 07	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 25 44.52	296 25 15	62 31 51	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 25 49.63	294 52 15	63 29 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 26 05.35	288 38 31	66 34 08	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 26 13.47	284 45 00	68 02 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 26 24.70	278 08 24	69 53 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 26 52.90	255 23 46	73 25 19	
ATO A AUS	34 55 14 S	138 36 14	55	09 26 57.00	258 30 00	72 00 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 26 58.21	250 26 13	73 42 39	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 27 05.41	243 57 35	73 57 18	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 27 18.06	230 15 10	73 43 44	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 27 39.21	210 22 55	71 42 32	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 27 47.42	203 51 28	70 29 56	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 27 54.67	200 02 18	69 13 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 28 07.73	193 07 51	66 46 19	
ADLAID A AUS	34 55 14 S	138 36 14	55	09 28 10.00	017 15 00 *	- 56 30 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 28 14.42	189 55 55	65 29 52	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 28 28.43	184 22 12	62 32 31	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 28 34.98	182 20 24	61 07 26	
ADLAID A AUS	34 55 14 S	138 36 14	55	09 28 41.00	017 50 00 *	- 64 00 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 28 47.21	178 54 21	58 34 20	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 28 54.46	177 15 36	56 59 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 29 04.25	175 07 19	54 54 36	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 29 12.17	173 40 22	53 20 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 29 31.75	170 44 45	49 28 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 29 36.18	170 04 30	48 26 20	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 29 44.95	168 21 36	45 51 50	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 29 57.84	167 33 03	44 18 14	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 03.74	166 54 54	43 18 39	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 09.33	166 23 24	42 17 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 17.19	165 42 00	40 56 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 21.68	165 16 40	40 09 43	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 30.18	164 38 20	38 43 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 36.48	164 12 36	37 41 27	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 44.20	163 35 06	36 28 48	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 51.86	163 10 40	35 19 22	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 30 58.52	162 40 51	34 17 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 05.53	162 16 55	33 14 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 13.30	161 55 08	32 13 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 20.71	161 28 12	31 03 07	
WOOMER AUS	31 06 06 S	136 46 54	162	09 31 27.84	001 27 30 *	- 70 57 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 30.81	161 59 06	29 42 54	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 31 38.11	160 38 56	28 41 24	
WOOMER AUS	31 06 06 S	136 46 54	162	09 31 44.16	001 37 54 *	- 69 34 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	09 32 00.59	001 47 12 *	- 68 10 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 05.42	159 27 39	25 07 40	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 27.79	158 39 32	22 39 39	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 33.87	158 25 26	22 02 52	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 43.33	158 09 00	20 59 06	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 51.49	157 51 32	20 12 25	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
8 SEP 1958 (CONT)							
SALSBURY AUS	34 43 58 S	138 38 47	32	09 32 59.44	157 33 39	19 21 03	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 11.57	157 16 55	18 08 09	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 20.76	157 01 51	17 14 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 28.77	156 50 16	16 28 19	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 45.17	156 24 18	14 58 55	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 33 53.81	156 13 55	14 15 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 00.25	156 05 31	13 41 27	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 07.94	155 53 31	12 58 04	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 14.94	155 44 27	12 26 42	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 40.15	155 12 03	10 27 03	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 49.87	155 04 33	09 44 34	
SALSBURY AUS	34 43 58 S	138 38 47	32	09 34 53.94	154 58 19	09 22 22	
WOOMER AUS	31 06 06 S	136 46 54	162	11 08 23.00	013 19 18 *	- 28 47 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	11 08 39.00	013 16 42 *	- 31 00 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	17 51 20.80	014 38 00 *	- 60 44 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 46 57.10	014 46 54 *	26 06 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 47 34.00	014 43 47 *	22 03 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 47 41.60	014 43 45 *	00 57 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 50 42.90	014 53 51 *	- 32 26 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 50 51.20	014 53 55 *	- 34 27 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 51 11.50	014 56 10 *	- 39 44 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 52 46.70	014 53 05 *	- 62 37 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 53 49.40	014 36 10 *	- 76 40 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 54 04.00	014 29 31 *	- 79 46 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 54 18.10	014 16 27 *	- 82 39 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 55 51.80	004 09 29 *	- 80 51 24 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 57 01.70	003 47 00 *	- 71 44 48 *	
9 SEP 1958							
MELBRNE AUS	37 49 54 S	144 58 24	29	08 56 35.09	180 00 00	65 00 00	
PT RICO B WI	18 18 00 N	292 51 00		09 35 00.00	147 32 24	13 40 48	
PT RICO B WI	18 18 00 N	292 51 00		09 35 30.00	128 42 36	15 51 00	
PT RICO B WI	18 18 00 N	292 51 00		09 36 00.00	105 20 24	17 00 00	
PT RICO B WI	18 18 00 N	292 51 00		09 36 30.00	088 29 24	16 07 48	
PT RICO B WI	18 18 00 N	292 51 00		09 37 26.00	059 43 12	08 59 24	
PT RICO B WI	18 18 00 N	292 51 00		09 37 40.00	052 59 24	06 58 48	
HUANCAVO PER	12 02 42 S	284 39 36	3350	10 11 30.00	033 00 00	30 00 00	
UNION JOHNSB	26 10 55 S	028 04 30	1806	17 13 26.00	013 22 30 *	- 29 54 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	17 16 30.60	012 27 00 *	- 58 48 00 *	
PPRET R S AF	25 43 43 S	028 12 42	1311	17 16 59.00	012 10 00 *	- 62 36 00 *	
PPRET R S AF	25 43 43 S	028 12 42	1311	17 18 35.60	010 30 00 *	- 72 12 00 *	
PPRET R S AF	25 43 43 S	028 12 42	1311	17 19 21.30	009 16 00 *	- 74 06 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	17 21 00.00	002 20 00 *	- 69 00 00 *	
10 SEP 1958							
WOOMER AUS	31 06 06 S	136 46 54	162	09 56 38.97	013 28 36 *	- 12 36 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	09 56 55.39	013 17 42 *	- 14 51 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	09 59 38.68	013 06 24 *	- 05 36 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	09 59 55.96	013 01 48 *	- 43 49 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3046	15 43 37.94	003 38 06 *	22 58 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3046	15 43 39.94	003 44 06 *	27 03 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	23 17 56.25	012 40 18 *	- 38 08 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	23 20 04.12	012 17 00 *	- 55 38 00 *	
11 SEP 1958							
ALBUO A NM	35 05 03 N	253 21 24	1520	11 50 26.30	099 00 00	06 24 00	
12 SEP 1958							
SACMTO E CAL	38 32 55 N	238 14 51	15	03 45 30.70	180 00 00	67 06 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	05 43 26.10	000 00 00	49 42 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 53 42.10	007 13 35 *	- 30 38 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 53 59.30	007 37 06 *	- 25 26 00 *	
VAN NUYS CAL	34 14 22 N	241 24 45	276	12 54 30.00	090 00 00	24 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 54 53.30	008 46 54 *	- 06 36 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	20 03 00.00	217 12 00	38 24 00	1590
MIL RAO MASS	42 37 03 N	288 30 28	155	20 04 04.00	202 18 00	32 48 00	1800

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
13 SEP 1958							
BRISTOL TENN	36 35 03 N	277 50 31	527	10 37 00.00	180 00 00	47 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 37 26.40	006 33 00 *	- 17 20 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 37 43.50	130 22 00	28 49 00	
CLEVELND A O	41 29 46 N	278 12 16	220	10 38 30.00	007 36 00 *	03 00 00 *	
14 SEP 1958							
MIL RAO MASS	42 37 03 N	268 30 28	155	09 57 46.00	208 24 00	02 30 00	1462
ARLINGTON VA	38 50 48 N	282 53 35	59	09 58 34.00	180 00 00	19 30 00	
WASH WLSN DC	38 50 00 N	282 59 24		09 58 44.00	005 10 00 *	- 26 00 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	09 59 16.00	090 00 00	21 30 00	
WASH WLSN OC	38 50 00 N	282 59 24		09 59 16.00	005 48 00 *	- 11 48 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		09 59 38.00	006 56 00 *	07 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 59 54.00	009 04 00 *	04 00 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		10 00 02.00	007 54 00 *	23 36 00 *	
BALTIMORE MO	39 24 28 N	283 24 35	144	10 00 05.00	090 00 00	40 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 00 13.50	009 50 00 *	26 10 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	10 00 15.00	199 00 00	38 54 00	429
MIL RAD MASS	42 37 03 N	288 30 28	155	10 03 14.00	036 12 00	13 54 00	1093
ORGN PASS NM	32 25 24 N	253 26 51	1651	11 37 50.30	006 49 10 *	- 01 59 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	11 37 50.95	006 51 54 *	- 01 04 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	11 37 51.95	006 54 42 *	- 00 10 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	11 38 04.00	008 53 00 *	17 18 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 38 09.00	007 16 06 *	09 36 00 *	
EL PASO TEX	31 49 41 N	253 36 36		11 38 11.50	080 00 00	35 30 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 38 27.00	008 13 18 *	24 48 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 39 03.00	009 48 54 *	40 12 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	11 40 43.10	014 38 00 *	85 30 00 *	
SACMTO E CAL	38 32 55 N	236 14 51	15	13 19 50.60	001 31 44 *	- 15 35 00 *	
SACMTO A CAL	38 38 25 N	238 43 24	160	13 20 12.00	001 35 15 *	40 52 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 20 55.70	022 31 00 *	89 15 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	19 59 04.00	000 30 00 *	15 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	19 59 14.50	270 00 00	56 00 00	
MANAZURU 2 J	35 20 04 N	139 07 48	50	20 00 05.00	308 54 00	23 48 00	
KASHIWABRA J	34 30 24 N	135 48 15	66	20 00 07.00	001 15 00 *	29 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	20 00 38.00	023 30 00 *	60 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	20 00 57.00	015 15 00 *	73 00 00 *	
15 SEP 1958							
MEUDON FR	48 48 16 N	002 13 52	162	04 22 37.00	108 34 00	13 20 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 23 04.90	097 25 00	12 55 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	06 17 50.70	000 00 00	37 00 00	
WASH WLSN DC	38 50 00 N	282 59 24		09 19 41.00	007 02 00 *	- 21 08 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		09 20 30.00	008 28 00 *	- 03 07 00 *	
BRYN ATHN PA	40 08 00 N	284 56 00	85	09 21 02.30	090 00 00	27 00 00	
OALLAS P TEX	32 51 10 N	263 14 29	172	10 59 54.50	009 06 00 *	67 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 22 29.90	019 58 18 *	68 19 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 40 03.40	005 39 21 *	- 10 30 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 40 27.10	006 50 06 *	08 28 00 *	
VAN NUYS CAL	34 14 22 N	241 24 45	276	12 40 34.00	018 20 00 *	84 00 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	12 40 55.40	357 30 00	35 00 00	
CHIN LAK CAL	35 39 25 N	242 20 13	701	12 41 08.45	003 00 00	30 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 41 13.00	009 17 11 *	35 52 00 *	
CUL CY B CAL	33 57 11 N	241 37 26	30	12 45 45.00	000 00 00	22 00 00	
KONKO J	34 32 31 N	133 37 40	4	19 19 42.00	090 00 00	32 00 00	
16 SEP 1958							
MAORIO SP	40 24 30 N	356 18 43	655	05 22 44.00	167 00 00	26 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 21 21.00	008 33 00 *	06 18 00 *	
ST COLL PA	40 44 01 N	282 06 33	393	10 22 58.00	346 00 00	23 00 00	
ST COLL PA	40 44 01 N	282 06 33	393	10 23 17.00	356 00 00	20 00 00	
ST COLL PA	40 44 01 N	282 06 33	393	10 23 20.00	357 00 00	20 00 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	12 00 53.40	270 00 00	24 30 00	
ASAHIKAWA J	43 46 27 N	142 21 50	113	18 40 29.00	006 35 00 *	- 07 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	18 41 08.00	008 03 00 *	02 00 00 *	
17 SEP 1958							
MAORIO SP	40 24 30 N	356 18 43	655	04 40 30.00	007 40 00 *	00 00 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	04 41 28.71	012 05 00 *	54 26 00 *	
MAORIO SP	40 24 30 N	356 18 43	655	04 41 30.00	011 00 00 *	57 00 00 *	
U.S.NAV B.O.C	38 55 12 N	282 56 08	93	09 40 39.70	016 15 00 *	89 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 SEP 1958 (CONT)							
MANH P O KAN	39 11 18 N	263 24 00	347	11 19 49.20	023 02 00 *	28 00 00 *	
MANH P D KAN	39 11 18 N	263 24 00	347	11 20 40.00	317 04 30	23 31 51	
DENVR A COLO	39 44 52 N	255 03 24	1625	11 20 40.20	037 15 00	32 30 00	
WICHITA KAN	37 41 44 N	262 45 19	413	11 20 47.50	330 12 00	20 03 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 00 06.00	022 35 12 *	35 20 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 00 23.10	022 07 24 *	44 38 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 00 55.40	020 52 12 *	59 07 00 *	
KURMEMACHI J	35 45 18 N	139 31 48	52	18 41 08.00	008 03 00 *	02 00 00 *	
18 SEP 1958							
MEUDON FR	48 48 18 N	002 13 52	162	03 59 50.90	133 01 00	24 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 00 18.00	113 39 00	26 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 00 44.90	095 47 00	24 22 00	
HORSBRDG ENG	50 53 00 N	000 15 00		04 00 47.00	117 00 00	23 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 01 39.60	071 38 00	17 45 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 38 25.50	001 41 00 *	50 29 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 38 40.00	338 30 00	60 12 00	
AMES IOWA	42 01 49 N	266 20 59		10 38 42.00	002 09 39 *	70 56 37 *	
BTLSVL-A OKL	36 42 18 N	264 03 36	213	10 38 43.00	013 57 00 *	64 58 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	10 39 56.30	025 18 00	09 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 40 37.00	023 30 00	15 12 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	12 18 14.00	005 32 32 *	01 00 00 *	
SACMTO A CAL	38 38 25 N	238 43 24	180	12 18 15.00	012 16 42 *	75 26 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 18 23.40	012 34 06 *	70 25 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 18 54.90	012 48 16 *	63 15 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	17 34 58.00	326 00 00	13 48 00	2200
MIL RAD MASS	42 37 03 N	288 30 28	155	17 40 03.00	284 06 00	86 54 00	1002
MIL RAD MASS	42 37 03 N	288 30 28	155	17 44 03.00	150 24 00	30 00 00	1861
ASAHIKAWA J	43 46 27 N	142 21 50	113	18 57 33.00	001 05 00 *	21 00 00 *	
MIZUKAIDO J	36 00 56 N	139 59 18	12	18 57 45.00	000 00 00	17 00 00	
ASAHIKAWA J	43 46 27 N	142 21 50	113	18 58 03.00	001 10 00 *	60 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	19 00 00.00	013 02 00 *	56 00 00 *	
19 SEP 1958							
MEUDON FR	48 48 18 N	002 13 52	162	03 17 16.30	100 21 00	11 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 17 52.10	087 44 00	10 39 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 18 19.20	079 46 00	09 32 00	
MAORIO SP	40 24 30 N	356 18 43	655	04 58 45.00	016 10 00 *	60 05 00 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	11 35 51.00	329 00 00	17 00 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	11 37 00.10	355 30 00	12 00 00	
SENDAI J	38 15 22 N	140 51 56	45	18 15 45.00	012 01 00 *	45 00 00 *	
20 SEP 1958							
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 34 36.30	165 12 00	11 00 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 34 44.70	162 54 00	11 42 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 34 53.90	160 18 00	12 36 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 35 02.40	157 42 00	13 24 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 35 11.70	154 24 00	14 18 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 35 19.90	151 36 00	15 06 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 35 29.20	148 06 00	15 54 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 35 38.00	144 18 00	16 42 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 35 48.30	140 30 00	17 24 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 35 56.60	136 54 00	17 54 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 36 06.00	132 54 00	18 30 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 36 14.80	129 06 00	18 42 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 36 32.30	121 18 00	19 12 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 36 42.30	117 00 00	19 06 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 36 52.10	112 48 00	19 00 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 37 01.00	109 18 00	18 54 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 37 11.70	104 54 00	18 24 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 37 20.40	101 42 00	18 06 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 37 29.50	098 24 00	17 30 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 37 47.50	092 36 00	16 30 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 38 04.50	087 48 00	15 24 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 38 13.70	085 18 00	14 48 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 38 23.10	083 06 00	14 00 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 38 32.20	081 00 00	13 30 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 38 41.60	079 00 00	12 42 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 38 50.60	077 18 00	12 06 00	
JOKNN 05 FIN	60 48 50 N	023 30 09	103	02 38 59.30	075 36 00	11 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
20 SEP 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 39 09.40	073 54 00	10 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 39 17.70	072 42 00	10 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 40 02.90	066 42 00	07 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 40 11.80	065 42 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 40 30.10	063 54 00	05 48 00	
21 SEP 1958							
BLFST-B.N.IR	54 33 00 N	354 06 00		03 29 21.00	007 36 00 *	01 00 00 *	
BLFST-B.N.IR	54 33 00 N	354 06 00		03 31 51.00	010 08 00 *	12 00 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	03 32 11.00	010 40 00 *	37 00 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	03 32 12.04	010 54 00 *	22 30 00 *	
22 SEP 1958							
FARNHAM ENG	51 12 00 N	359 12 00		04 22 52.50	000 24 00 *	30 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	04 23 27.80	316 57 00	29 02 00	
CHELMSFD ENG	51 43 00 N	000 30 00		04 23 44.00	023 42 00 *	60 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	04 23 46.40	329 22 00	28 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 24 04.90	340 42 00	27 32 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 24 20.10	348 46 00	25 56 00	
RUSSUM NETH	52 16 52 N	005 09 18		04 25 04.50	018 22 00 *	72 36 00 *	
CHELMSFO ENG	51 43 00 N	000 30 00		04 25 44.00	013 28 00 *	54 00 00 *	
23 SEP 1958							
RUSSUM NETH	52 16 52 N	005 09 18		03 35 51.70	001 55 42 *	35 00 00 *	
RUSSUM NETH	52 16 52 N	005 09 18		03 35 59.70	002 05 00 *	42 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	03 36 09.90	014 49 00	39 59 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 36 29.70	021 20 00	32 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 36 48.50	025 00 00	26 54 00	
STEENWK NETH	52 47 29 N	006 06 38		03 37 18.70	010 40 00 *	69 30 00 *	
RUSSUM NETH	52 16 52 N	005 09 18		03 37 44.70	011 44 18 *	56 00 00 *	
ORFONESS ENG	52 06 00 N	001 36 00		03 38 59.00	042 37 00	15 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 39 39.00	042 03 00	10 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 40 27.00	041 47 00	06 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 41 20.00	041 37 00	03 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	12 00 56.00	001 42 00	01 24 00	2698
24 SEP 1958							
MIL RAD MASS	42 37 03 N	288 30 28	155	07 45 35.00	025 00 00	13 42 00	1184
MIL RAD MASS	42 37 03 N	288 30 28	155	07 48 12.00	030 48 00	00 54 00	2317
MIL RAD MASS	42 37 03 N	288 30 28	155	09 27 03.00	341 36 00	06 36 00	1833
MIL RAD MASS	42 37 03 N	288 30 28	155	09 30 29.00	016 06 00	00 18 00	2668
MIL RAD MASS	42 37 03 N	288 30 28	155	11 10 23.00	352 12 00	00 18 00	2608
MIL RAD MASS	42 37 03 N	288 30 28	155	11 14 19.00	023 54 00	00 18 00	3080
MIL RAD MASS	42 37 03 N	288 30 28	155	14 36 11.00	354 42 00	13 48 00	2109
MIL RAD MASS	42 37 03 N	288 30 28	155	14 39 45.00	042 12 00	27 00 00	1672
MIL RAD MASS	42 37 03 N	288 30 28	155	14 41 34.00	069 35 00	24 18 00	1859
MIL RAD MASS	42 37 03 N	288 30 28	155	16 18 37.00	319 00 00	22 24 00	1824
MIL RAD MASS	42 37 03 N	288 30 28	155	16 22 22.00	254 36 00	31 24 00	1061
MIL RAD MASS	42 37 03 N	288 30 28	155	16 26 31.00	162 42 00	28 42 00	1908
MIL RAD MASS	42 37 03 N	288 30 28	155	18 02 01.00	274 18 00	11 24 00	2682
MIL RAD MASS	42 37 03 N	288 30 28	155	18 08 17.00	221 24 00	09 06 00	3118
25 SEP 1958							
STEENWK NETH	52 47 29 N	006 06 38		03 39 23.90	018 20 00 *	72 06 00 *	
CHELMSFD ENG	51 43 00 N	000 30 00		03 40 03.00	012 57 00 *	56 00 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		03 41 48.00	035 00 00	11 00 00	
HORSBROG ENG	50 53 00 N	000 15 00		03 42 05.00	036 00 00	09 00 00	
HANOV F GER	52 22 18 N	009 47 22		03 49 50.00	012 59 50 *	71 43 45 *	
26 SEP 1958							
ORFONESS ENG	52 06 00 N	001 36 00		04 28 21.90	311 30 00	18 00 00	
CHELMSFD ENG	51 43 00 N	000 30 00		04 28 39.00	022 46 00 *	46 00 00 *	
ORFONESS ENG	52 06 00 N	001 36 00		04 29 15.30	333 24 00	21 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		04 30 39.00	003 12 00	18 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		04 32 04.80	023 30 00	12 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		04 33 26.00	031 18 00	07 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		04 34 43.40	037 00 00	04 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
27 SEP 1958							
CHELMSFD ENG	51 43 00 N	000 30 00		03 36 22.00	017 10 00	66 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 36 47.90	357 21 00	16 31 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 37 04.20	001 52 00	15 22 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 37 19.60	005 48 00	14 15 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 37 39.60	010 09 00	12 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 37 57.90	013 42 00	11 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 38 18.70	017 14 00	10 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 38 36.10	019 46 00	09 01 00	
28 SEP 1958							
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 43 36.60	259 36 00	28 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 43 42.60	260 30 00	30 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 43 47.70	261 36 00	32 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 43 55.70	263 06 00	34 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 44 03.50	264 54 00	37 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 44 12.90	267 42 00	41 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 44 21.10	270 42 00	45 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 44 28.60	274 12 00	49 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 44 39.10	280 36 00	54 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 44 47.00	287 18 00	58 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 44 55.00	296 00 00	62 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 45 05.60	312 24 00	66 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 45 19.30	339 54 00	68 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 45 31.30	002 36 00	66 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 45 46.30	022 30 00	60 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 45 56.10	030 24 00	56 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 46 05.70	036 00 00	51 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 46 17.30	040 54 00	47 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 46 24.70	043 12 00	44 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 46 33.10	045 30 00	41 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 46 41.70	047 30 00	38 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 46 52.10	049 24 00	35 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 47 00.20	050 36 00	33 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 47 12.40	052 06 00	30 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 47 20.70	053 00 00	28 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 47 29.90	053 48 00	27 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 47 38.90	054 42 00	25 24 00	
29 SEP 1958							
COPNGN B DEN	55 42 13 N	012 27 09	10	03 28 54.03	020 47 30 *	47 20 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	03 29 50.03	018 09 54 *	60 30 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	03 30 26.06	017 40 00 *	62 00 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	03 30 47.52	016 27 00 *	58 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	13 34 53.00	021 56 12	28 43 12	1571
MIL RAD MASS	42 37 03 N	288 30 28	155	13 35 56.00	041 05 24	31 47 24	1515
MIL RAD MASS	42 37 03 N	288 30 28	155	13 36 29.80	051 37 48	32 00 06	1528
MIL RAD MASS	42 37 03 N	288 30 28	155	13 37 02.30	061 22 12	31 10 48	1576
MIL RAD MASS	42 37 03 N	288 30 28	155	13 38 35.20	083 37 48	25 38 24	1839
MIL RAD MASS	42 37 03 N	288 30 28	155	13 40 46.00	102 00 24	15 48 00	2405
30 SEP 1958							
MIL RAD MASS	42 37 03 N	288 30 28	155	16 25 38.70	250 08 24	24 30 00	2405
1 OCT 1958							
FARNHAM ENG	51 12 00 N	359 12 00		04 58 03.00	005 42 00	14 00 00	
2 OCT 1958							
NOME ALASKA	64 31 00 N	194 34 00		12 32 00.00	000 00 00	88 00 00	
NOME ALASKA	64 31 00 N	194 34 00		13 11 00.00	000 00 00	87 00 00	
3 OCT 1958							
ORFDNESS ENG	52 06 00 N	001 36 00		02 59 45.00	003 12 00	17 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		03 00 44.20	019 00 00	13 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		03 01 39.60	025 42 00	10 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		03 02 29.60	031 21 00	07 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		03 03 44.10	040 21 00	04 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		04 42 36.80	023 30 00	15 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		04 43 54.80	036 24 00	12 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		04 44 08.00	042 36 00	10 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
3 OCT 1958 (CONT)							
ORFONESS ENG	52 06 00 N	001 36 00		04 45 43.20	052 09 00	07 00 00	
6 OCT 1958							
COPNGN B OEN	55 42 13 N	012 27 09	10	03 18 17.00	015 32 00 *	46 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 18 55.20	030 42 00	54 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 19 04.70	037 48 00	53 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 19 13.60	043 42 00	51 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 19 22.90	049 24 00	49 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 19 31.70	054 06 00	47 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 19 40.20	058 18 00	45 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 09.40	068 36 00	39 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 17.00	070 36 00	37 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 26.80	072 54 00	36 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 44.70	076 36 00	32 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 54.70	078 12 00	31 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 03.20	079 30 00	29 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 12.60	080 48 00	28 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 22.00	081 54 00	26 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 39.00	083 48 00	24 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 50.10	084 54 00	23 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 58.90	085 30 00	22 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 08.30	086 24 00	20 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 17.40	087 06 00	19 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 26.40	087 42 00	18 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 35.80	088 18 00	18 00 00	
COPNGN B OEN	55 42 13 N	012 27 09	10	03 29 52.00	008 17 00 *	36 55 00 *	
COPNGN B OEN	55 42 13 N	012 27 09	10	03 30 28.00	008 36 00 *	25 40 00 *	
COPNGN B OEN	55 42 13 N	012 27 09	10	03 31 06.00	008 45 00 *	16 18 00 *	
TATSFLO ENG	51 18 00 N	000 00 00		04 56 57.00	356 00 00	16 00 00	
CHELMSENG ENG	51 43 00 N	000 30 00		04 59 32.00	014 09 00 *	44 00 00 *	
COLL C ALAS	64 51 36 N	212 12 12	137	14 47 55.00	000 00 00	90 00 00	
7 OCT 1958							
COLL C ALAS	64 51 36 N	212 12 12	137	11 44 36.00	156 00 00	43 00 00	
8 OCT 1958							
MIL RAO MASS	42 37 03 N	288 30 28	155	02 35 30.00	114 48 00	04 30 00	1510
MIL RAO MASS	42 37 03 N	288 30 28	155	04 12 53.00	228 30 00	03 06 00	1545
MIL RAO MASS	42 37 03 N	288 30 28	155	04 16 08.00	303 12 00	41 30 00	507
MIL RAO MASS	42 37 03 N	288 30 28	155	04 18 23.00	016 24 00	16 06 00	1122
MEUDON FR	48 48 18 N	002 13 52	162	04 28 46.00	004 31 00	13 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 29 03.70	008 27 00	14 35 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 29 23.00	012 48 00	15 02 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 29 42.10	017 07 00	15 20 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 29 57.90	020 48 00	15 31 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 30 28.60	027 37 00	15 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 30 47.00	031 41 00	15 21 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 31 05.60	035 36 00	15 04 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 31 23.00	039 05 00	14 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 31 42.70	042 57 00	14 11 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 32 00.30	046 07 00	13 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 32 38.00	052 20 00	12 17 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 33 06.40	056 37 00	11 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 33 22.40	058 55 00	10 25 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 33 41.80	061 27 00	09 34 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 34 00.80	063 45 00	08 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 34 18.50	065 50 00	07 58 00	
ADLATO C AUS	34 44 00 S	138 40 00		10 23 45.00	010 24 00 *	- 61 31 00 *	
9 OCT 1958							
HARROGTE ENG	53 59 00 N	358 26 00		03 20 36.50	017 30 00 *	54 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		03 21 32.50	015 45 00 *	56 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		03 22 46.50	013 45 00 *	49 30 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	09 27 06.00	011 10 00 *	61 00 00 *	
CLEVELNO A O	41 29 46 N	278 12 16	220	09 30 13.00	010 03 00 *	03 00 00 *	
COLL C ALAS	64 51 36 N	212 12 12	137	13 09 12.00	000 00 00	87 00 00	
COLL C ALAS	64 51 36 N	212 12 12	137	14 52 02.00	161 00 00	61 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 OCT 1958							
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 36 53.70	047 36 00	32 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 36 59.90	049 06 00	31 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 37 09.40	051 06 00	29 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 37 19.80	053 00 00	28 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 37 30.80	054 54 00	26 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 37 45.60	056 54 00	24 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 37 55.10	058 12 00	22 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 38 07.00	059 30 00	21 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 38 18.50	060 36 00	19 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 38 29.90	061 36 00	18 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 38 42.30	062 42 00	17 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 38 55.10	063 42 00	16 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 39 09.90	064 36 00	14 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 39 21.40	065 18 00	13 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 39 32.60	065 54 00	12 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 39 46.70	066 42 00	11 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 40 03.40	067 30 00	10 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 40 26.70	068 30 00	08 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 40 35.90	068 48 00	07 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 40 45.60	069 06 00	07 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 41 02.10	069 42 00	06 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 41 13.30	070 06 00	05 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 41 29.70	070 36 00	04 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 41 41.80	070 54 00	04 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 15 00.00	315 00 00	34 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 15 09.80	317 42 00	37 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 15 20.10	321 24 00	40 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 15 30.40	325 30 00	42 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 15 43.30	331 48 00	46 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 15 55.10	340 36 00	50 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 16 09.00	348 18 00	52 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 16 19.00	356 06 00	54 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 16 41.00	015 48 00	55 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 16 51.70	025 12 00	55 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 17 03.40	034 42 00	53 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 17 21.10	047 06 00	50 42 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	03 40 35.00	234 00 00	11 54 00	1052
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 54 58.90	298 30 00	25 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 55 07.60	298 12 00	26 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 55 17.80	297 42 00	28 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 55 25.40	297 18 00	30 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 55 33.70	296 54 00	32 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 55 44.10	296 12 00	35 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 55 52.80	295 36 00	37 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 56 00.80	294 54 00	40 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 56 10.40	294 00 00	42 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 56 19.60	292 54 00	46 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 56 28.70	291 36 00	49 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 56 37.20	290 06 00	52 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 56 44.50	288 30 00	55 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 56 54.00	286 00 00	59 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 57 04.00	282 18 00	63 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 57 11.90	278 18 00	63 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 57 23.60	269 30 00	71 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 57 34.60	255 30 00	76 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 57 50.50	219 00 00	79 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 58 19.60	162 42 00	72 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 58 54.40	144 24 00	59 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 59 02.80	142 18 00	56 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 59 21.70	139 06 00	49 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 59 30.30	138 06 00	47 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 59 39.70	137 00 00	44 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 59 53.90	135 48 00	41 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 00 09.40	134 48 00	37 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 00 19.40	134 18 00	35 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 00 29.10	133 48 00	33 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 00 42.70	133 18 00	31 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 00 58.30	132 48 00	28 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 01 11.10	132 30 00	26 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 01 20.90	132 12 00	25 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 OCT 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 01 34.70	131 54 00	23 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 01 46.30	131 36 00	22 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 01 56.60	131 24 00	21 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 02 09.70	131 12 00	19 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 02 19.20	131 06 00	18 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 02 38.20	130 48 00	16 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 02 49.90	130 48 00	15 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 03 01.10	130 42 00	14 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 03 12.70	130 36 00	13 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 03 24.40	130 24 00	12 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 03 37.30	130 18 00	12 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 03 49.70	130 18 00	11 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 04 02.80	130 12 00	10 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 04 16.90	130 06 00	09 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 04 30.80	130 00 00	08 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 04 43.20	130 00 00	07 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 04 53.50	129 54 00	06 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 05 07.70	129 54 00	05 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 05 17.70	129 48 00	05 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 05 27.30	129 48 00	04 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	04 05 57.60	129 48 00	03 12 00	
COLL C ALAS	64 51 36 N	212 12 12	137	13 42 47.00	180 00 00	90 00 00	
COLL C ALAS	64 51 36 N	212 12 12	137	13 45 19.00	106 00 00	36 00 00	
11 OCT 1958							
HARROGTE ENG	53 59 00 N	358 26 00		03 30 55.00	135 00 00	45 00 00	
CHELMSFO ENG	51 43 00 N	000 30 00		04 28 52.00	013 23 00 *	53 30 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 22 18.39	012 31 48 *	- 57 25 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 22 26.16	012 37 00 *	- 58 03 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 22 33.92	012 42 48 *	- 58 45 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 22 41.69	012 49 12 *	- 59 30 00 *	
12 OCT 1958							
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 01 42.60	065 00 00	12 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 02 00.30	066 00 00	11 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 02 09.80	066 24 00	10 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 02 19.60	066 48 00	09 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 02 29.00	067 12 00	08 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 02 38.00	067 36 00	08 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 02 55.60	068 12 00	07 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 03 24.70	069 06 00	05 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 03 41.80	069 42 00	04 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 38 41.80	016 48 00	54 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 38 53.80	025 48 00	53 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 39 06.40	035 30 00	51 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 39 16.00	042 36 00	50 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 39 25.20	047 30 00	48 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 39 35.70	053 18 00	46 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 39 46.20	057 48 00	44 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 40 01.30	063 18 00	40 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 40 10.80	066 24 00	38 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 40 23.80	069 36 00	36 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 40 37.00	072 42 00	33 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 40 50.20	075 06 00	31 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 41 05.40	077 30 00	28 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 41 19.20	079 24 00	26 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 41 29.00	080 36 00	25 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 41 46.70	082 24 00	23 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 42 06.00	084 12 00	20 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 42 40.40	086 42 00	17 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 43 01.00	087 54 00	15 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 43 20.00	088 54 00	13 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 43 46.80	090 06 00	11 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 44 15.30	091 18 00	09 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 44 34.60	091 54 00	08 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 45 01.40	092 48 00	06 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 45 28.00	093 30 00	05 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	01 46 07.00	094 18 00	02 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 16 09.30	300 18 00	18 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 16 20.80	300 06 00	19 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
12 OCT 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 16 35.60	299 54 00	22 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 16 47.70	299 36 00	24 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 17 02.30	299 18 00	27 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 17 16.00	298 54 00	30 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 17 29.40	298 24 00	33 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 17 50.00	297 30 00	39 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 17 59.90	297 00 00	42 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 18 17.00	295 36 00	48 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 18 36.10	293 18 00	56 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 18 46.40	291 24 00	60 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 18 58.30	288 18 00	65 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 19 09.00	283 30 00	71 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 19 19.30	275 48 00	75 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 13.80	146 30 00	72 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 26.20	140 42 00	67 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 31.90	139 00 00	65 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 38.70	137 12 00	62 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 20 47.20	135 36 00	58 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 03.80	133 24 00	53 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 15.60	132 30 00	49 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 28.30	131 30 00	45 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 38.70	131 00 00	42 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 21 55.20	130 12 00	38 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 06.70	129 54 00	36 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 24.00	129 18 00	32 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 36.30	129 06 00	30 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 22 53.40	128 42 00	28 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 23 12.40	128 30 00	25 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 23 25.50	128 18 00	23 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 23 44.90	128 06 00	21 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 23 56.00	128 00 00	19 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 24 24.30	127 48 00	17 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 24 49.00	127 42 00	14 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 25 10.30	127 36 00	13 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 25 35.60	127 30 00	11 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 26 07.90	127 30 00	08 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 26 40.40	127 24 00	06 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 27 11.00	127 24 00	05 00 00	
HARRCGTE ENG	53 59 00 N	358 26 00	103	03 27 34.00	127 24 00	03 42 00	
				04 56 58.50	340 00 00	00 00 00	
HARROGTE ENG	53 59 00 N	358 26 00		04 57 43.50	300 00 00	00 00 00	
ARBEVILLE FR	50 07 30 N	001 49 42		05 00 45.00	109 48 00	00 00 00	
VAN NUYS CAL	34 14 22 N	241 24 45	276	12 25 03.00	045 00 00	31 00 00	
VAN NUYS CAL	34 14 22 N	241 24 45	276	12 27 48.00	091 00 00	20 00 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	19 44 39.26	013 11 30 *	41 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	19 45 10.35	012 37 30 *	28 18 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 57 04.00	017 37 00 *	24 18 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 57 22.00	018 20 00 *	09 00 00 *	
13 OCT 1958							
BUSSUM NETH	52 16 52 N	005 09 18		03 45 33.50	019 37 90 *	53 12 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		03 47 04.80	017 06 70 *	66 42 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		03 48 00.60	012 47 40 *	55 06 00 *	
HILVRSM NETH	52 12 23 N	005 09 18		03 48 06.70	014 13 90 *	64 24 00 *	
		005 10 05		03 48 14.70	013 34 30 *	11 18 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		03 46 25.30	013 16 10 *	59 18 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		03 48 35.90	011 09 70 *	57 12 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		03 48 46.50	011 55 02 *	55 00 00 *	
LNDSTRT NETH	52 37 39 N	004 44 58		03 48 51.10	012 20 24 *	51 54 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		03 48 57.00	012 34 30 *	52 42 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		03 49 07.70	012 22 80 *	50 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	03 52 39.90	026 18 00	23 30 00	
ADLATO A AUS	34 55 14 S	138 36 14	55	09 42 42.00	017 25 00 *	35 03 00 *	
LITHGOW AUS	33 30 00 S	150 07 00		09 44 48.00	276 00 00	14 00 00	
LITHGOW AUS	33 30 00 S	150 07 00		09 45 50.00	282 00 00	12 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 22 50.00	033 18 00	17 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 24 05.00	012 51 00 *	39 54 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 24 31.00	012 09 30 *	20 54 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	17 51 59.00	016 05 00 *	21 30 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 53 45.00	015 16 00 *	18 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
13 OCT 1958 (CONT)							
CPTWN A S AF	33 56 00 S	018 28 37	7	17 53 54.80	019 40 00 *	45 16 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 44 26.30	014 55 40 *	42 54 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 45 02.00	016 35 54 *	28 50 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 45 44.10	018 43 38 *	25 21 06 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 46 04.40	019 32 50 *	19 35 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 46 13.50	019 51 30 *	24 32 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		22 46 32.00	020 22 29 *	31 57 18 *	
14 OCT 1958							
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 57 48.40	068 30 00	32 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 57 57.60	070 30 00	31 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 58 24.70	074 36 00	27 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 58 33.40	075 54 00	25 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	00 58 42.50	077 06 00	24 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 35 54.80	301 42 00	62 13 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	02 38 18.70	121 54 00	49 42 00	
STEENWK NETH	52 47 29 N	006 06 38		04 28 25.00	004 28 25 *	71 12 00 *	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 09 13.00	015 00 00 *	13 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 48 55.00	027 00 00	21 30 00	
MLWKEE B WIS	42 59 25 N	272 01 15		10 49 02.30	015 12 00 *	71 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 49 05.00	017 55 00 *	71 48 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	10 49 41.00	032 30 00	28 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 50 01.00	015 18 00 *	72 36 00 *	835
AMES A IOWA	42 01 59 N	266 22 00	305	10 50 15.50	012 47 11 *	46 24 15 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 50 27.00	048 30 00	11 30 00	
MLWKEE B WIS	42 59 25 N	272 01 15		10 50 33.00	012 25 00 *	53 40 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 51 21.00	061 30 00	11 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	10 51 40.00	328 06 00	50 15 00	
CLEVELND R O	41 25 30 N	278 10 18	245	10 52 20.00	011 12 00 *	45 00 00 *	562
MIL RAD MASS	42 37 03 N	288 30 28	155	10 52 43.00	335 42 00	44 18 00	
MLWKEE B WIS	42 59 25 N	272 01 15		10 53 02.00	011 17 00 *	19 40 00 *	945
DAYTON B O	39 50 14 N	275 44 03	249	10 53 07.00	011 28 00 *	16 48 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	10 53 19.00	166 45 00	42 36 00	738
MIL RAD MASS	42 37 03 N	288 30 28	155	10 56 13.00	147 15 00	31 42 00	899
MIL RAD MASS	42 37 03 N	288 30 28	155	10 58 03.00	147 36 00	18 42 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 26 29.30	014 30 57 *	55 34 00 *	1218
SACMTO E CAL	38 32 55 N	238 14 51	15	12 29 22.10	012 30 11 *	33 26 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	16 41 24.70	002 52 00 *	75 24 00 *	
JOHNBG C S AF	26 07 00 S	028 00 00	1615	16 41 33.40	001 51 00 *	67 48 00 *	
UNION JOHNBG	26 10 55 S	028 04 30	1606	16 41 50.00	001 05 00 *	55 30 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	16 42 22.70	000 49 00 *	17 36 00 *	
15 OCT 1958							
HILVRSM NETH	52 12 23 N	005 10 05		03 03 13.10	012 46 30 *	55 06 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		03 04 55.10	011 15 48 *	32 42 00 *	
SPETSAI I GR	37 16 30 N	023 09 00		03 06 45.00	013 31 00 *	54 00 00 *	
SPETSAI I GR	37 16 30 N	023 09 00		03 08 07.00	012 33 00 *	40 30 00 *	
SPETSAI I GR	37 16 30 N	023 09 00		03 10 28.50	011 45 00 *	17 30 00 *	
ORFDNESS ENG	52 06 00 N	001 36 00		04 40 52.80	327 48 00	34 00 00	
MILLHILL ENG	51 37 00 N	359 46 00		04 42 13.70	002 30 00 *	88 36 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		04 42 21.20	007 10 00 *	87 42 00 *	
ORFDNESS ENG	52 06 00 N	001 36 00		04 42 22.10	345 12 00	59 00 00	
STEENWK NETH	52 47 29 N	006 06 38		04 42 24.90	001 51 00 *	63 36 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		04 42 30.90	008 40 00 *	83 54 00 *	
ORFDNESS ENG	52 06 00 N	001 36 00		04 43 40.60	057 12 00	69 00 00	
HARROGTE ENG	53 59 00 N	358 26 00		04 44 29.00	009 10 00 *	28 00 00 *	
ORFDNESS ENG	52 06 00 N	001 36 00		04 44 34.20	102 12 00	55 00 00	
HILVRSM NETH	52 12 23 N	005 10 05		04 45 27.70	008 18 54 *	32 42 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		04 45 36.90	008 24 30 *	30 18 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		04 45 46.10	008 30 06 *	27 00 00 *	
ORFDNESS ENG	52 06 00 N	001 36 00		04 45 48.80	115 09 00	37 00 00	
HILVRSM NETH	52 12 23 N	005 10 05		04 45 55.30	008 35 36 *	23 36 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		04 46 04.50	008 41 12 *	20 12 00 *	
ORFDNESS ENG	52 06 00 N	001 36 00		04 48 50.60	125 48 00	16 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	09 36 38.50	013 36 48 *	50 48 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 37 08.00	040 39 00	14 27 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 13 59.00	357 00 00	26 00 00	
WICHITA KAN	37 41 44 N	262 45 19	413	11 14 11.40	016 55 00 *	67 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 15 13.00	015 00 00	35 30 00	
AMES IOWA	42 01 49 N	266 20 59		11 16 26.00	011 34 26 *	59 43 40 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
15 OCT 1958 (CONT)							
AMES A IOWA	42 01 59 N	266 22 00	305	11 16 26.00	043 00 00	41 30 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 16 27.00	012 44 47 *	55 12 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 16 27.40	012 43 00 *	55 18 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 17 03.00	012 16 53 *	42 00 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 17 31.00	012 01 21 *	42 30 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 17 59.00	011 49 19 *	36 36 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	11 18 12.00	039 37 00	65 17 00	
TERRHAUT INO	39 31 38 N	272 36 10	155	11 18 16.30	045 00 00	46 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 18 26.00	087 00 00	35 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 19 03.50	096 00 00	31 00 00	
TERRHAUT INO	39 31 38 N	272 36 10	155	11 19 23.40	090 00 00	46 00 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 19 32.00	011 30 00 *	16 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 19 40.50	103 00 00	26 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 20 27.50	109 00 00	22 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 53 37.80	013 26 42 *	60 12 00 *	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 54 34.00	027 31 12	24 36 00	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 55 34.00	042 51 07	27 25 36	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 55 38.00	011 53 08 *	35 43 00 *	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 56 29.00	057 27 00	28 04 48	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 56 34.00	058 46 12	28 00 00	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 57 34.00	073 39 36	26 07 12	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 58 34.00	086 18 00	22 68 36	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 58 55.00	089 56 24	21 45 36	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 59 34.00	096 36 00	19 00 36	
EDW AF C CAL	34 59 52 N	242 09 04	706	13 00 34.00	103 08 24	15 13 48	
EDW AF C CAL	34 59 52 N	242 09 04	706	13 01 34.00	109 36 00	11 31 12	
EDW AF C CAL	34 59 52 N	242 09 04	706	13 02 34.00	113 39 00	08 06 36	
EDW AF C CAL	34 59 52 N	242 09 04	706	13 03 34.00	117 25 12	04 58 12	
EDW AF C CAL	34 59 52 N	242 09 04	706	13 04 34.00	120 12 36	02 01 48	
UNION JOHNSBG	26 10 55 S	028 04 30	1806	17 07 44.20	016 05 00 *	01 30 00 *	
JOHNS C S AF	26 07 00 S	028 00 00	1615	17 28 16.50	016 54 00 *	18 18 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	17 24 19.00	011 10 00 *	56 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	17 24 59.00	010 48 00 *	43 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	17 26 24.00	010 30 00 *	19 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	17 27 18.00	010 28 00 *	09 00 00 *	
16 OCT 1958							
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 26 06.80	285 42 00	22 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 26 17.50	284 00 00	23 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 26 28.20	282 06 00	25 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 26 46.00	278 24 00	28 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 26 57.80	275 42 00	29 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 27 09.10	273 00 00	31 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 27 22.70	268 48 00	33 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 27 38.80	263 24 00	36 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 27 50.00	259 30 00	37 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 28 06.50	252 42 00	39 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 28 25.70	244 06 00	41 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 28 37.90	238 24 00	42 12 00	
COPNGN B OEN	55 42 13 N	012 27 09	10	03 29 45.40	206 12 00	40 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 29 50.00	098 15 00 *	38 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	03 29 53.40	203 12 00	39 54 00	
COPNGN B DEN	55 42 13 N	012 27 09	10	03 29 54.69	008 18 00 *	35 57 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	03 30 10.80	352 18 00	16 48 00	
COPNGN B OEN	55 42 13 N	012 27 09	10	03 30 28.04	008 36 30 *	25 42 00 *	
COPNGN B OEN	55 42 13 N	012 27 09	10	03 31 06.04	008 45 30 *	16 18 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	03 31 06.90	000 12 00	22 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 32 02.90	010 18 00	30 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 32 29.90	017 06 00	33 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 33 25.90	034 24 00	39 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 34 20.90	056 42 00	42 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 35 06.90	075 24 00	40 30 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 35 53.90	089 48 00	36 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 36 39.90	101 18 00	30 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 37 24.60	108 54 00	26 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 38 02.90	113 48 00	23 06 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 38 39.90	117 48 00	20 18 00	
DAYTON B O	39 50 14 N	275 44 03	249	09 59 48.00	016 56 00 *	66 36 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		10 00 32.00	018 24 00 *	74 42 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 00 48.00	014 55 00 *	66 20 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OP RGT ASCEN *	ELEVATION OR DECLINATION	SLANT RANGE IN KM
16 OCT 1958 (CONT)							
DAYTON B O	39 50 14 N	275 44 03	249	10 01 24.50	028 13 00	24 01 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 02 00.00	012 57 00 *	56 36 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 02 06.00	012 55 00 *	55 48 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		10 02 14.00	014 30 00 *	75 48 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	10 02 27.00	012 05 00 *	55 00 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	10 02 31.50	012 12 00 *	55 55 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		10 03 32.00	011 51 00 *	59 18 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 05 01.80	011 25 00 *	20 48 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 05 37.50	010 13 00 *	15 12 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 05 41.00	010 11 00 *	14 30 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	10 05 53.00	010 59 00 *	20 30 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		10 05 58.00	010 58 00 *	20 18 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		10 07 05.00	010 44 00 *	07 48 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	11 39 49.50	018 48 46 *	81 42 00 *	
BTLSVL A OKL	36 42 18 N	264 03 36	213	11 40 19.00	000 00 00	31 00 00	
MANHATTN KAN	39 09 45 N	263 31 09	311	11 40 20.00	012 04 00 *	87 24 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	11 40 42.00	013 10 00 *	55 48 00 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	11 41 34.80	065 30 00	32 00 00	
MANHATTN KAN	39 09 45 N	263 31 09	311	11 41 53.00	010 15 00 *	56 48 00 *	
BTLSVL A OKL	36 42 18 N	264 03 36	213	11 42 18.00	010 30 00 *	59 30 00 *	
BTLSVL A OKL	36 42 18 N	264 03 36	213	11 43 16.00	010 28 00 *	39 30 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 44 00.50	010 08 54 *	13 24 12 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	11 44 18.00	011 33 00 *	17 00 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	11 44 19.00	010 07 00 *	11 00 00 *	
BTLSVL A OKL	36 42 18 N	264 03 36	213	11 44 27.00	010 33 00 *	20 15 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	11 44 33.00	011 31 00 *	14 30 00 *	
EL PASO TEX	31 49 41 N	253 36 36		11 44 37.00	073 00 00	17 00 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 45 05.00	119 07 36	31 31 12	
WLNTCK B CAL	37 57 52 N	237 56 14	9	13 17 23.00	018 30 00 *	83 06 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 19 28.10	010 25 45 *	56 11 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 20 10.20	010 19 40 *	41 46 00 *	
WLNTCK B CAL	37 57 52 N	237 56 14	9	13 20 19.00	010 31 18 *	40 30 00 *	
VAN NUYS CAL	34 14 22 N	241 24 45	276	13 22 32.00	090 00 00	47 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 22 33.00	099 14 24	47 44 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 23 33.00	144 36 00	37 51 18	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 24 33.00	122 57 54	20 26 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 25 33.00	125 31 48	22 27 36	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 26 33.00	133 21 00	16 46 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 27 33.00	134 58 48	12 36 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 28 33.00	137 00 36	07 58 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	19 47 17.25	019 05 00 *	77 34 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	19 48 12.67	015 00 00 *	81 13 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	19 48 51.14	012 24 00 *	75 30 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	19 49 05.00	012 33 00 *	64 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	19 50 35.00	011 29 00 *	42 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	19 50 38.00	010 51 00 *	44 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	19 50 41.00	009 27 00 *	09 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	19 52 29.00	009 15 00 *	11 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	19 53 00.00	010 35 00 *	08 00 00 *	

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MIL RAD MASS	42 37 03 N	288 30 28	155	01 54 37.20	231 12 00	05 06 00	1346
MIL RAD MASS	42 37 03 N	288 30 28	155	01 55 38.40	242 42 00	16 18 00	947
MIL RAD MASS	42 37 03 N	288 30 28	155	01 58 13.20	344 42 00	33 30 00	732
MIL RAD MASS	42 37 03 N	288 30 28	155	01 58 36.90	356 30 00	26 36 00	784
MIL RAD MASS	42 37 03 N	288 30 28	155	01 59 10.60	008 42 00	20 18 00	955
LNOSTRT NETH	52 37 39 N	004 44 58		02 11 55.82	012 20 36 *	51 48 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	03 49 24.00	339 46 00	19 06 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 49 29.00	334 30 00	29 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 49 41.30	342 13 00	21 15 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 49 54.30	344 07 00	23 03 00	
MILLHILL ENG	51 37 00 N	359 46 00		03 50 08.50	019 14 00 *	72 18 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		03 50 08.51	018 50 00 *	75 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	03 50 13.00	347 27 00	25 36 00	
FARNHAM ENG	51 12 00 N	359 12 00		03 50 16.00	018 20 00 *	73 30 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		03 50 18.10	018 20 00 *	77 06 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		03 50 27.50	017 30 00 *	78 48 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	03 50 29.20	350 38 00	28 00 00	
MILLHILL ENG	51 37 00 N	359 46 00		03 50 36.80	016 25 00 *	80 18 00 *	
MILLHILL ENG	51 37 00 N	359 46 00		03 50 45.80	010 56 00 *	66 24 00 *	
ORFONESS ENG	52 06 00 N	001 36 00		03 50 47.50	358 18 00	45 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 OCT 1958 (CONT)							
FARNHAM ENG	51 12 00 N	359 12 00		03 50 48.00	015 46 00 *	78 12 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	03 50 48.20	355 05 00	30 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 50 59.60	358 06 00	32 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 51 13.70	002 12 00	34 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 51 32.50	008 27 00	37 32 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 51 52.40	016 08 00	40 10 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 51 58.10	034 42 00	55 00 00	
MILLHILL ENG	51 37 00 N	359 46 00		03 51 59.40	010 43 00 *	67 48 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	03 52 08.30	023 03 00	41 51 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 52 21.20	029 02 00	42 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 52 36.30	036 25 00	43 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 52 48.60	042 05 00	44 02 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 52 56.00	074 36 00	49 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 53 05.90	050 56 00	43 51 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 53 22.90	056 55 00	42 59 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 53 42.70	067 24 00	41 25 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 53 57.60	103 18 00	31 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 54 00.60	074 12 00	39 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 54 19.60	080 20 00	37 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 54 46.30	087 38 00	33 45 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 55 06.20	092 01 00	31 20 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 55 16.40	113 30 00	21 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 55 25.90	095 46 00	28 55 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 55 42.00	098 33 00	26 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 56 02.00	101 17 00	24 46 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 56 20.70	103 37 00	22 52 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 56 39.10	105 37 00	20 55 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 56 45.70	119 06 00	13 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 56 57.00	107 22 00	19 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 57 15.20	108 58 00	17 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 57 34.30	110 17 00	16 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		03 57 41.20	119 39 00	04 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 57 53.80	111 48 00	14 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 58 12.70	113 03 00	12 59 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 58 31.50	114 07 00	11 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 58 50.60	115 07 00	10 16 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 59 08.90	116 01 00	09 02 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 59 25.00	116 47 00	07 59 00	
MEUDON FR	48 48 18 N	002 13 52	162	03 59 54.30	117 57 00	06 14 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 00 22.30	118 58 00	04 36 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 29 27.50	305 14 00	19 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 29 41.20	303 47 00	20 29 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 29 56.30	302 02 00	22 37 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 30 05.90	300 52 00	23 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 30 17.00	299 18 00	25 15 00	
ORFONESS ENG	52 06 00 N	001 36 00		05 30 26.70	282 12 00	32 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 30 34.20	296 39 00	27 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 30 45.60	294 45 00	29 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 30 59.50	291 58 00	31 35 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 31 11.00	289 28 00	33 31 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 31 26.30	285 43 00	35 55 00	
ORFONESS ENG	52 06 00 N	001 36 00		05 31 39.10	259 00 00	42 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 31 39.90	280 00 00	38 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 31 59.80	275 22 00	41 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 32 14.20	269 57 00	43 13 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 32 29.60	263 26 00	45 05 00	
ORFONESS ENG	52 06 00 N	001 36 00		05 32 30.00	221 30 00	39 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 32 43.00	257 09 00	46 28 00	
CHELMSFO ENG	51 43 00 N	000 30 00		05 33 04.30	246 27 00	47 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 33 13.00	005 34 00 *	09 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	05 33 17.70	239 47 00	48 07 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 33 30.60	233 06 00	47 57 00	
ORFONESS ENG	52 06 00 N	001 36 00		05 33 44.00	226 27 00	47 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 33 44.00	199 00 00	33 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 33 58.80	219 36 00	46 01 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 34 21.30	210 16 00	43 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 34 34.70	205 31 00	42 11 00	
ORFONESS ENG	52 06 00 N	001 36 00		05 34 45.30	202 07 00	40 48 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 34 48.60	175 57 00	10 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 34 55.30	199 11 00	39 27 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 OCT 1958 (CONT)							
ORFONESS ENG	52 06 00 N	001 36 00		05 34 59.70	183 12 00	24 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 35 06.30	196 13 00	37 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 35 23.30	192 15 00	34 32 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 35 38.70	189 05 00	33 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 35 50.70	186 58 00	31 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 36 01.80	184 59 00	30 26 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 36 11.80	183 31 00	29 10 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 36 25.50	181 41 00	27 31 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 36 37.20	180 16 00	26 08 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 36 52.30	178 36 00	24 25 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 37 02.60	177 33 00	23 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 37 18.90	174 03 00	21 39 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 37 31.90	174 55 00	20 21 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 37 43.20	174 05 00	19 16 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 37 56.90	173 05 00	18 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 38 09.20	172 16 00	16 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 38 21.10	171 32 00	15 57 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 38 36.80	170 38 00	14 39 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 38 48.60	169 59 00	13 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	05 39 06.80	168 09 00	12 20 00	
ORFONESS ENG	52 06 00 N	001 36 00		05 39 35.50	166 18 00	07 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	08 46 06.50	048 46 00	10 20 00	
DAYTON B O	39 50 14 N	275 44 03	249	08 49 03.00	011 52 00 *	13 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	08 50 01.00	011 35 00 *	08 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 21 26.00	000 00 00	18 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 22 21.00	011 00 00	24 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 22 59.00	021 00 00	27 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 23 38.50	358 06 00	28 06 00	
AMES IOWA	42 01 49 N	266 20 59		10 23 44.00	012 47 58 *	60 46 10 *	
AMES IOWA	42 01 49 N	266 20 59		10 24 03.00	012 22 00 *	56 53 19 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 24 03.00	041 00 00	30 48 00	
AMES IOWA	42 01 49 N	266 20 59		10 24 39.00	011 46 55 *	48 38 22 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 24 53.70	012 05 00 *	78 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 24 59.00	057 00 00	31 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 25 26.00	010 45 00 *	67 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 25 54.00	073 00 00	27 30 00	
ST COLL PA	40 44 01 N	282 06 33	393	10 26 07.00	006 56 13 *	66 00 00 *	
ST COLL P PA	40 44 00 N	282 06 33	393	10 26 08.00	006 56 14 *	66 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 26 42.00	084 00 00	25 00 00	
N Y C A NY	40 45 28 N	286 01 15	259	10 26 43.00	005 15 00 *	49 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 26 53.00	010 23 00 *	41 00 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	10 27 00.20	090 00 00	37 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 27 18.00	091 00 00	22 00 00	
ST COLL P PA	40 44 00 N	282 06 33	393	10 27 28.00	090 00 00	73 00 00	
N Y C A NY	40 45 28 N	286 01 15	259	10 27 54.00	007 41 00 *	32 40 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 27 55.00	010 12 00 *	24 00 00 *	
N Y C A NY	40 45 28 N	286 01 15	259	10 27 55.00	007 50 00 *	31 20 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 27 55.00	096 00 00	19 12 00	
BRISTOL TENN	36 35 03 N	277 50 31	527	10 28 33.00	090 00 00	39 30 00	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	11 04 58.00	012 43 00	61 30 00	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	11 05 16.00	012 22 00	58 24 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 44 10.00	010 08 54 *	13 30 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	11 45 05.00	119 17 00	31 53 00	
DFNVR A COLO	39 44 52 N	255 03 24	1625	12 02 18.00	357 00 00	47 30 00	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 04 04.00	053 45 00	19 53 24	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	12 04 30.00	011 14 00 *	61 12 00 *	
EL PASO TEX	31 49 41 N	253 36 36		12 04 31.50	026 00 00	32 00 00	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	12 04 48.00	011 04 00 *	56 00 00 *	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 04 56.00	065 10 12	18 58 48	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 04 57.00	011 31 12 *	61 30 00 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 05 16.00	011 20 18 *	56 12 00 *	
KANCITY MO	39 02 02 N	265 25 08	259	12 05 21.00	270 00 00	66 00 00	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 05 56.00	076 06 00	17 00 00	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 06 11.00	010 59 12 *	40 48 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	12 06 11.00	011 34 00 *	20 42 00 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 06 29.00	010 55 36 *	35 36 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	12 06 36.40	010 57 42 *	34 40 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	12 06 40.40	010 56 54 *	33 40 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	12 06 48.40	010 55 30 *	31 47 00 *	
EDW AF C CAL	34 59 52 N	242 09 04	706	12 06 56.00	085 13 48	14 28 48	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 OCT 1958 (CONT)							
EOW AF C CAL	34 59 52 N	242 09 04	706	12 07 32.00	090 00 00	12 44 24	
EOW AF C CAL	34 59 52 N	242 09 04	706	12 07 56.00	092 46 30	11 30 36	
EOW AF C CAL	34 59 52 N	242 09 04	706	12 08 56.00	098 56 06	08 33 36	
PORTLAND ORE	45 29 19 N	237 22 27	46	13 38 41.00	001 31 00 *	49 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 42 04.40	005 30 48 *	53 55 00 *	
WLNTCK B CAL	37 57 52 N	237 56 14	9	13 42 16.00	005 59 00 *	54 48 00 *	
SNYVAL A CAL	37 22 20 N	237 59 40	17	13 43 48.00	007 46 48 *	28 24 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 45 13.90	008 25 20 *	03 32 00 *	
18 OCT 1958							
THURSO SCOT	58 36 00 N	356 30 00		04 12 30.30	004 55 00 *	41 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		04 14 41.00	007 40 00 *	31 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		04 14 51.00	007 45 00 *	27 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		04 15 00.00	007 51 00 *	24 30 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	04 15 12.50	057 02 00	72 32 00	
GRONNGN NETH	53 12 18 N	006 34 01		04 15 29.60	006 14 18 *	22 24 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	04 15 35.40	087 38 00	68 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 16 04.00	105 28 00	61 02 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 16 24.40	113 05 00	55 02 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 16 49.00	118 58 00	48 16 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 17 11.40	122 23 00	43 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 17 29.30	124 36 00	39 12 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 17 47.30	126 30 00	35 39 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 18 07.60	127 49 00	32 09 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 18 24.30	128 52 00	29 32 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 18 43.80	129 54 00	26 44 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 19 02.80	130 45 00	24 19 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 19 21.50	131 29 00	22 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 19 40.80	132 10 00	20 01 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 20 07.60	132 58 00	17 20 00	
N CANTON A O	40 55 54 N	278 32 40	366	09 04 13.00	017 12 00 *	62 40 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	09 06 23.00	012 31 00 *	59 40 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	09 06 49.00	012 52 12 *	56 11 00 *	
CINCINATI B O	39 09 06 N	275 32 15		09 07 20.00	042 00 00	17 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	09 09 02.40	011 40 00 *	18 40 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 09 53.00	011 18 00 *	15 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 10 08.00	011 10 00 *	13 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 11 04.50	084 20 00	10 50 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	09 12 09.00	010 18 30	02 04 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 41 52.00	339 00 00	14 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 42 29.00	342 00 00	19 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 43 52.00	353 00 00	31 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 44 29.00	001 00 00	31 48 00	
MANHTN B KAN	39 13 51 N	263 22 54	409	10 44 36.00	014 50 00 *	75 42 00 *	
CINCINATI B O	39 09 06 N	275 32 15		10 44 50.00	332 00 00	27 00 00	
MLWKEE B WIS	42 59 25 N	272 01 15		10 44 56.00	001 35 00 *	72 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 44 58.00	331 54 00	29 32 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	10 45 00.00	320 21 00	26 03 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 45 24.00	019 00 00	48 06 00	
AMES IOWA	42 01 49 N	266 20 59		10 45 51.00	009 55 46 *	65 31 56 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 45 55.00	001 53 00 *	69 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 46 03.60	002 10 00 *	68 50 00 *	
AMES IOWA	42 01 49 N	266 20 59		10 46 19.00	009 48 03 *	55 08 58 *	
WICHITA KAN	37 41 44 N	262 45 19	413	10 46 20.20	011 55 00 *	56 42 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 46 29.00	057 00 00	54 00 00	
AMES IOWA	42 01 49 N	266 20 59		10 46 37.00	009 45 41 *	48 30 40 *	
AMES IOWA	42 01 49 N	266 20 59		10 47 14.00	009 42 08 *	35 34 44 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 47 16.00	083 00 00	49 54 00	
N CANTON A O	40 55 54 N	278 32 40	366	10 47 32.00	005 08 00 *	43 34 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	10 47 40.00	045 00 00	69 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	10 47 42.00	008 00 00 *	31 30 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	10 47 43.00	005 25 00 *	40 57 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 48 02.00	100 00 00	42 30 00	
LANSB B MICH	42 43 00 N	275 13 00		10 48 08.90	007 17 40 *	22 03 34 *	
N CANTON A O	40 55 54 N	278 32 40	366	10 48 35.50	006 33 00 *	24 20 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	10 48 36.00	090 00 00	64 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 48 38.00	007 36 00 *	30 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 48 45.80	007 28 00 *	30 15 00 *	
MLWKEE B WIS	42 59 25 N	272 01 15		10 49 06.00	008 40 00 *	04 00 00 *	
PITTSBGH PA	40 29 00 N	280 00 00	381	10 50 00.00	180 00 00	56 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
18 OCT 1958 (CONT)							
DANVILLE ILL	40 08 57 N	272 22 26	189	10 50 07.50	130 42 00	39 48 00	
MLWKEE B WIS	42 59 25 N	272 01 15		10 51 17.00	008 57 00 *	- 19 20 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	11 44 36.00	014 50 00 *	75 42 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 27 19.00	355 49 48	25 04 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 23 19.00	015 12 36	27 24 00	
TUCSON ARIZ	32 13 59 N	249 03 51	227	12 24 05.00	016 57 00 *	87 44 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 24 19.00	030 42 00	33 01 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 25 19.00	050 27 00	35 57 36	
DENVR A COLO	39 44 52 N	255 03 24	1625	12 25 32.00	273 00 00	71 00 00	
ORGN PASS NM	32 25 24 N	253 26 51	1651	12 25 58.03	006 05 12 *	72 49 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	12 26 16.04	006 47 48 *	68 37 00 *	
ALBUO S NM	35 03 18 N	253 23 30	1618	12 26 17.00	000 00 00	71 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 26 19.00	070 49 48	35 16 12	
ALBUO A NM	35 05 03 N	253 21 24	1520	12 26 42.00	007 27 30 *	46 00 00 *	
ORGN PASS NM	32 25 24 N	253 26 51	1651	12 26 44.05	007 32 30 *	59 27 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	12 27 00.00	007 43 00 *	38 42 00 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	12 27 03.00	007 57 00 *	35 00 00 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 27 10.00	007 44 24 *	49 24 00 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	12 27 12.00	090 00 00	78 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 27 19.00	087 33 00	30 58 48	
ALBUO A NM	35 05 03 N	253 21 24	1520	12 27 21.00	008 07 00 *	29 00 00 *	
VAN NUYS CAL	34 14 22 N	241 24 45	276	12 27 40.00	090 00 00	29 00 00	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 27 56.00	008 20 30 *	31 48 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 28 19.00	108 36 00	20 33 00	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 28 24.00	008 33 06 *	22 12 00 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	12 28 51.00	008 45 42 *	13 00 00 *	
EL PASO TEX	31 49 41 N	253 36 36		12 29 26.50	124 00 00	53 30 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 30 19.00	115 06 00	15 47 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 31 19.00	119 46 48	11 30 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 32 19.00	123 13 12	07 54 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 33 19.00	126 19 48	04 25 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 34 03.00	127 54 00	02 17 24	
YOKKAICHI J	35 00 15 N	136 39 00	3	18 52 39.00	012 41 00 *	56 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	18 56 28.00	011 05 00 *	16 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	20 33 23.00	008 31 00 *	46 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	20 37 04.00	009 24 00 *	- 08 00 00 *	
19 OCT 1958							
GRONNGN NETH	53 12 18 N	006 34 01		02 56 18.30	009 25 42 *	35 36 00 *	
GRONNGN NETH	53 12 18 N	006 34 01		04 34 37.40	003 44 18 *	25 18 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	04 36 39.60	179 36 00	58 19 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 36 56.70	174 19 00	51 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 37 11.60	170 49 00	48 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 37 27.00	167 59 00	44 23 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 37 40.10	166 00 00	41 35 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 37 55.12	164 07 00	38 29 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 38 10.30	162 35 00	35 38 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 38 25.20	161 19 00	33 05 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 38 37.20	160 28 00	31 07 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 38 46.20	159 39 00	29 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 39 00.80	158 59 00	27 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 39 13.80	158 19 00	25 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 39 32.40	157 29 00	23 35 00	
MEUDON FR	48 48 18 N	002 13 52	162	04 39 44.50	157 01 00	22 07 00	
MEUDON FR	48 48 18 N	00 13 52	162	04 40 00.10	156 29 00	20 26 00	
DAYTON B O	39 50 14 N	275 44 03	249	09 25 31.50	014 53 00 *	70 00 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	09 25 54.00	012 24 00 *	86 30 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	09 26 09.00	012 13 00 *	57 20 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	09 26 26.00	011 52 00 *	54 00 00 *	
N CANTON A O	40 55 54 N	273 32 40	366	09 26 40.00	012 08 00 *	70 30 00 *	
CLEVELND A O	41 29 46 N	278 12 16	220	09 27 06.00	011 10 00 *	61 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 27 08.00	011 54 00 *	56 42 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	09 27 10.00	011 24 00 *	62 36 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 27 14.00	042 22 00	30 49 00	
CLEVELND A O	41 29 46 N	278 12 16	220	09 27 29.00	010 55 00 *	57 00 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	09 27 31.00	011 02 00 *	56 24 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	09 28 25.00	010 31 00 *	40 45 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	09 28 50.00	010 21 00 *	34 00 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	09 28 59.80	009 20 30 *	22 48 00 *	
BALTIMORE MD	39 24 28 N	283 24 35	144	09 30 09.00	090 00 00	44 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
19 OCT 1958 (CONT)							
CLEVELND A O	41 29 46 N	278 12 16	220	09 30 13.00	010 03 00 *	03 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 30 23.00	010 28 00 *	09 20 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 30 44.40	010 23 00 *	10 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 31 22.20	010 27 30 *	13 54 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 32 35.00	010 26 00 *	02 45 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 02 30.00	328 00 00	22 47 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 03 16.00	329 00 00	30 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 03 54.00	329 00 00	38 30 00	
CINCINNATI R O	39 09 06 N	275 32 15		11 04 06.00	313 00 00	20 00 00	
AMES IOWA	42 01 49 N	266 20 59		11 04 20.00	001 53 25 *	65 57 33 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 04 39.00	323 00 00	51 30 00	
AMES IOWA	42 01 49 N	266 20 59		11 04 48.00	003 11 52 *	63 52 34 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	11 04 58.00	012 43 00 *	61 30 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	11 05 01.50	006 25 42 *	87 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	11 05 02.70	305 31 00	28 41 00	
AMES IOWA	42 01 49 N	266 20 59		11 05 16.00	004 27 59 *	59 55 23 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	11 05 16.00	012 22 00 *	59 24 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 05 17.00	321 00 00	63 18 00	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	11 05 25.00	012 48 36 *	60 54 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	11 05 28.40	002 05 00 *	43 30 00 *	
AMES IOWA	42 01 49 N	266 20 59		11 06 03.00	006 04 56 *	46 40 25 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	11 06 20.00	270 00 00	55 30 00	
AMES IOWA	42 01 49 N	266 20 59		11 06 21.00	006 31 08 *	46 05 55 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	11 06 39.00	011 46 36 *	47 24 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	11 06 47.50	008 28 00 *	65 18 00 *	
CINCINNATI R O	39 09 06 N	275 32 15		11 06 57.00	282 00 00	48 00 00	
AMES IOWA	42 01 49 N	266 20 59		11 07 16.00	007 22 45 *	20 29 33 *	
N CANTON A O	40 55 54 N	278 32 40	366	11 07 17.00	003 57 00 *	19 20 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 07 17.00	151 00 00	67 00 00	
AMES IOWA	42 01 49 N	266 20 59		11 07 27.00	007 30 08 *	17 43 15 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	11 08 03.00	011 12 54 *	30 36 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 08 04.00	152 00 00	51 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	11 08 11.00	209 39 00	46 05 00	
AMES IOWA	42 01 49 N	266 20 59		11 08 12.00	007 54 52 *	03 41 40 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	11 08 21.00	011 07 00 *	26 48 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 08 50.00	152 00 00	40 30 00	
CLEVELND A O	41 29 46 N	278 12 16	220	11 09 02.00	005 33 00 *	06 00 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	11 09 09.00	005 32 00 *	03 35 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 09 24.00	152 00 00	24 42 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	11 09 32.00	180 00 00	39 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 09 52.00	152 00 00	21 18 00	
BILOXI MISS	30 23 27 N	271 08 26	7	11 10 18.00	090 00 00	75 00 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	11 10 25.00	172 00 00	33 30 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	11 11 12.00	007 52 00 *	24 30 00 *	
ALMGRDO A NM	32 52 23 N	254 02 57	1335	11 11 28.00	010 46 06 *	02 18 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	11 11 34.00	166 30 00	24 00 00	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	11 13 21.60	011 23 36 *	16 55 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	11 13 56.60	011 20 30 *	11 00 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	12 38 54.00	336 18 00	14 07 12	
EDW AF O CAL	34 56 43 N	242 04 58	785	12 40 54.00	340 09 36	17 54 36	
EDW AF O CAL	34 56 43 N	242 04 58	785	12 41 54.00	343 41 24	25 53 24	
WLNTCK B CAL	37 57 52 N	237 56 14	9	12 42 03.00	021 50 00 *	87 42 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	12 42 54.00	349 26 24	36 24 36	
CUL CY A CAL	34 09 05 N	241 24 06		12 43 52.00	000 00 00	45 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 43 54.00	001 09 00	50 08 24	
WLNTCK B CAL	37 57 52 N	237 56 14	9	12 44 10.00	009 09 18 *	47 12 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 44 54.00	030 55 12	64 18 00	
VAN NUYS CAL	34 14 22 N	241 24 45	276	12 45 13.00	045 00 00	61 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 45 54.00	087 03 36	64 54 00	
VAN NUYS CAL	34 14 22 N	241 24 45	276	12 46 14.00	090 00 00	60 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 46 54.00	117 19 12	51 51 48	
TUCSON ARIZ	32 13 59 N	249 03 51	227	12 47 27.00	007 16 00 *	18 24 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 47 54.00	128 54 00	39 16 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 48 54.00	134 51 36	29 33 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 49 54.00	138 25 48	22 06 36	
EDW AF O CAL	34 56 43 N	242 04 58	785	12 50 54.00	140 45 36	16 12 36	
EDW AF O CAL	34 56 43 N	242 04 58	785	12 51 54.00	142 19 12	11 23 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 52 54.00	143 37 12	07 13 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 53 54.00	144 36 36	03 39 36	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 54 18.00	145 09 00	02 22 48	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
19 OCT 1958 (CONT)							
YOKKAICHI J	35 00 15 N	136 39 00	3	19 10 59.00	013 48 00 *	78 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	19 12 13.00	011 28 00 *	61 00 00 *	
IKOMA J	34 40 34 N	135 40 23	634	19 12 30.00	045 00 00	45 00 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	19 12 35.00	010 52 00 *	58 00 00 *	
MUSASHINO J	35 42 58 N	139 34 35	75	19 13 10.00	045 00 00	50 42 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	19 14 30.00	010 07 00 *	22 00 00 *	
KASHIWABRA J	34 30 24 N	135 48 15	66	19 14 51.00	010 20 00 *	20 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	19 15 55.00	010 10 00 *	06 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	20 54 50.00	009 53 30 *	24 30 00 *	
20 OCT 1958							
LANGS B MICH	42 43 00 N	275 13 00		00 37 39.70	000 00 00	46 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 18 10.40	330 06 00	62 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 20 06.40	162 12 00	70 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 20 44.80	157 36 00	57 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 21 31.90	155 36 00	44 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 22 37.40	155 00 00	32 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 23 42.70	154 42 00	22 36 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 24 57.40	155 00 00	15 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 25 44.90	157 12 00	17 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 26 12.40	154 48 00	09 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	03 26 12.40	154 48 00	09 24 00	
BUSSUM NETH	52 16 52 N	005 09 18		04 53 03.33	003 26 24 *	10 47 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		04 55 01.04	005 02 48 *	- 06 60 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		04 55 03.00	005 11 30 *	- 07 24 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		04 55 12.22	005 16 12 *	- 08 18 00 *	
BUSSUM NETH	52 16 52 N	005 09 18		04 55 15.84	005 12 54 *	- 07 54 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		04 55 21.22	005 21 00 *	- 09 12 00 *	
HILVRSM NETH	52 12 23 N	005 10 05		04 55 30.32	005 25 42 *	- 10 60 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	09 44 45.00	009 48 00 *	59 18 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	09 45 08.00	002 24 00 *	66 12 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 45 25.40	010 30 00 *	63 20 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 45 31.50	039 30 00	52 03 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	09 45 32.20	001 25 00 *	65 48 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 46 10.40	010 34 00 *	51 30 00 *	
CHI FAXN ILL	41 59 00 N	272 21 00	218	09 46 21.00	090 00 00	32 00 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	09 46 27.80	007 19 30 *	20 54 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 46 46.00	010 13 00 *	23 12 00 *	
MILLBROOK NY	41 51 30 N	286 22 33	243	09 46 49.50	005 20 00 *	29 06 00 *	
CINCINNATI A O	39 11 29 N	275 17 24	270	09 46 56.00	080 00 00	48 00 00	
N CANTON C O	40 52 35 N	275 35 20		09 47 31.00	008 37 00 *	18 15 00 *	
MILLBROOK NY	41 51 30 N	286 22 33	243	09 48 51.00	007 14 00 *	22 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 49 17.20	009 27 00 *	- 02 00 00 *	
PITTSBURGH PA	40 29 00 N	280 00 00	381	09 50 22.00	140 40 00	25 17 00	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 59 31.00	356 41 34	12 33 09	
C CNAV G FLA	28 16 17 N	279 23 37	11	09 59 32.00	356 15 33	12 36 10	
AMES A IOWA	42 01 59 N	266 22 00	305	11 19 53.00	311 30 00	16 30 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 19 58.00	014 12 00	15 32 24	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 20 58.00	023 51 36	18 04 48	
AMES A IOWA	42 01 59 N	266 22 00	305	11 20 59.00	305 30 00	24 16 00	
AMES A IOWA	42 01 59 N	266 22 00	303	11 21 45.00	298 00 00	31 24 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 21 58.00	036 34 12	20 38 24	
AMES IOWA	42 01 49 N	266 20 59		11 22 31.00	007 28 22 *	37 17 23 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 22 31.00	288 30 00	38 48 00	
ALMGROO A NM	32 52 23 N	254 02 57	1335	11 22 32.00	015 16 48 *	83 06 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	11 22 58.00	012 35 36 *	80 30 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 22 58.00	050 21 00	21 42 36	
DENV R A COLO	39 44 52 N	255 03 24	1625	11 23 00.00	023 00 00	65 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 23 17.00	269 30 00	46 00 00	
ALBUQ A NM	35 05 03 N	253 21 24	1520	11 23 26.00	010 22 00 *	68 18 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	11 23 45.00	010 08 00 *	62 24 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 23 58.00	063 48 00	21 05 24	
ALMGROO A NM	32 52 23 N	254 02 57	1335	11 24 12.00	010 29 00 *	63 06 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	11 24 12.00	270 00 00	30 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 24 14.00	242 00 00	51 48 00	
ALMGROO A NM	32 52 23 N	254 02 57	1335	11 24 49.00	010 13 54 *	52 12 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	11 24 58.00	075 42 00	19 04 48	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 25 07.51	010 16 18	47 07 00	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 25 35.53	010 09 42	38 40 00	
ALMGROO A NM	32 52 23 N	254 02 57	1335	11 25 36.00	010 03 48 *	37 18 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 25 47.00	201 30 00	42 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
20 OCT 1958 (CONT)							
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 25 47.53	010 07 42	35 18 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 25 58.00	085 49 48	16 16 48	
ALMGROO A NM	32 52 23 N	254 02 57	1335	11 26 04.00	010 00 00 *	29 12 00 *	
KANCITY MO	39 02 02 N	265 25 08	259	11 26 05.00	180 00 00	34 20 00	
CINCINATI B O	39 09 06 N	275 32 15		11 26 19.00	243 00 00	30 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	11 26 24.00	191 30 00	36 30 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	11 26 35.00	005 37 00 *	04 30 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 26 58.00	092 45 36	11 14 24	
MANHATTN KAN	39 09 45 N	263 31 00	311	11 27 32.50	007 33 00 *	13 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	11 27 38.00	180 30 00	26 30 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 27 58.00	100 25 48	09 58 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 28 58.00	105 40 48	06 48 36	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 29 58.00	109 58 48	03 56 24	
VANCOUVER BC	49 15 46 N	236 44 57	105	12 57 55.00	002 46 00 *	31 00 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	12 58 13.00	003 10 00 *	29 00 00 *	
SUNNYVALE CAL	37 21 00 N	237 56 24	61	12 58 43.80	000 02 00 *	59 45 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 00 37.60	003 52 04 *	52 03 00 *	
WLNICK B CAL	37 57 52 N	237 56 14	9	13 01 47.00	005 48 30 *	37 18 00 *	
SACMTO E CAL	36 32 55 N	238 14 51	15	13 02 19.50	006 18 54 *	27 22 00 *	
SUNNYVALE CAL	37 21 00 N	237 56 24	61	13 02 45.00	006 45 24 *	21 42 00 *	
VAN NUYS CAL	34 14 22 N	241 24 45	276	13 03 11.00	290 00 00	70 30 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 00 52.00	314 03 00	38 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 01 52.00	302 09 36	52 08 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 02 52.00	269 35 24	66 13 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 03 52.00	211 49 12	64 54 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 04 52.00	184 25 48	51 10 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 05 52.00	174 04 12	38 31 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 06 52.00	169 01 48	28 52 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 07 52.00	166 06 00	21 31 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 08 52.00	164 12 00	15 40 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 09 52.00	162 51 00	10 45 36	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 10 52.00	161 53 24	06 56 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	14 11 52.00	161 10 12	03 25 48	
DAYTON B O	39 50 14 N	275 44 03	249	23 58 45.60	023 05 00 *	32 00 00 *	
21 OCT 1958							
EDW AF D CAL	34 56 43 N	242 04 58	785	03 37 42.00	023 23 06	31 09 36	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 38 42.00	042 06 00	35 45 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 39 42.00	063 27 54	36 28 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 40 42.00	082 30 00	33 15 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 41 42.00	096 46 48	28 01 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 42 42.00	106 43 30	22 30 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 43 42.00	113 51 36	17 51 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 44 42.00	119 02 42	12 54 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 45 42.00	122 57 00	08 53 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 46 42.00	126 06 00	05 22 30	
EDW AF D CAL	34 56 43 N	242 04 58	785	03 47 42.00	128 31 12	02 10 30	
DAYTON B O	39 50 14 N	275 44 03	249	06 25 46.00	010 23 00 *	10 15 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	08 26 42.80	092 47 00	08 35 00	
DAYTON B O	39 50 14 N	275 44 03	249	08 27 39.60	098 14 00	07 27 00	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	09 59 39.60	001 37 00 *	41 48 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 59 53.00	330 44 00	38 39 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	09 59 53.00	315 20 00	32 54 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 00 07.80	001 22 00 *	68 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 00 28.00	002 23 00 *	67 00 00 *	
PITTSBGH PA	40 29 00 N	280 00 00	381	10 01 56.00	279 50 00	62 25 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	10 02 00.00	007 20 00 *	31 00 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	10 03 34.20	006 04 30 *	04 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 03 36.00	007 03 00 *	22 45 00 *	
CINCINATI B O	39 09 06 N	275 32 15		10 03 37.00	142 00 00	61 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 04 13.00	150 11 00	48 00 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	10 04 22.00	162 46 00	47 20 00	
CINCINATI B O	39 09 06 N	275 32 15		10 04 28.00	145 00 00	40 00 00	
MILLBROOK NY	41 51 30 N	286 22 33	243	10 05 11.00	005 47 00 *	14 45 00 *	
OUNLAP ONTAR	43 51 46 N	280 34 40	244	10 05 39.00	006 40 12 *	15 12 00 *	
CINCINATI B O	39 09 06 N	275 32 15		10 05 46.00	148 00 00	31 00 00	
PITTSBGH PA	40 29 00 N	280 00 00	381	10 05 55.00	170 50 00	30 06 00	
MILLBROOK NY	41 51 30 N	286 22 33	243	10 08 45.00	007 13 00 *	36 40 00 *	
DENV R A COLO	39 44 52 N	255 03 24	1525	11 38 46.00	293 00 00	60 30 00	
ALMGDO-GS NM	32 52 22 N	254 03 05	1339	11 38 56.00	002 10 54 *	74 06 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	11 38 56.60	010 12 33 *	31 46 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
21 OCT 1958 (CONT)							
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 39 13.00	003 19 42 *	73 18 00 *	
EL PASO TEX	31 49 41 N	253 36 36		11 39 20.50	348 30 00	40 00 00	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 39 32.32	006 28 18	74 12 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	11 39 38.50	010 03 05 *	21 50 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	11 40 01.00	006 09 00 *	54 42 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	11 40 19.00	006 32 00 *	48 06 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 40 37.00	006 36 48 *	54 42 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 41 32.24	007 41 24	37 12 00	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 42 27.00	008 00 00 *	14 36 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 42 46.00	008 07 36 *	08 42 00 *	
ORGN P SS NM	32 25 24 N	253 26 51	1651	11 42 54.46	008 18 12	08 28 00	
VANCOUVER BC	49 15 46 N	236 44 57	105	13 13 29.00	002 23 42 *	18 12 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	13 13 48.00	002 38 30 *	16 18 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 15 42.50	002 14 17 *	33 38 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 15 47.00	299 50 24	21 19 12	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 16 47.00	289 47 06	27 45 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 17 02.50	003 36 10 *	20 46 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 17 47.00	275 02 06	33 43 48	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 18 04.00	269 58 30	35 07 12	
VAN NUYS CAL	34 14 22 N	241 24 45	276	13 18 19.00	270 00 00	39 45 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	13 18 26.50	005 38 00 *	16 18 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	13 18 26.90	004 51 37 *	02 22 00 *	
WLNTCK B CAL	37 57 52 N	237 56 14	9	13 18 32.40	004 56 00 *	03 30 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 18 47.00	255 40 12	37 25 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 19 07.00	248 40 12	37 54 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 19 47.00	234 33 00	36 58 48	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 20 47.00	217 06 00	33 01 12	
PORTLAND ORE	45 29 19 N	237 22 27	46	13 21 12.00	006 49 00 *	32 30 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 21 47.00	204 18 00	27 28 30	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 22 47.00	195 16 30	21 42 36	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 23 47.00	189 02 42	16 42 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 24 47.00	184 27 00	12 12 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	13 25 47.00	160 56 42	08 11 24	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 26 47.00	178 12 00	04 39 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	13 27 47.00	176 08 24	01 30 54	
22 OCT 1958							
S FERNDO SP	36 27 42 N	353 47 42	30	03 47 38.57	010 32 36 *	45 21 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	03 48 28.49	010 02 24 *	32 44 00 *	
S FERNDO SP	36 27 42 N	353 47 42	30	03 49 47.48	009 56 42 *	15 42 00 *	
CINCINATI B O	39 09 06 N	275 32 15		08 38 50.00	081 15 00	22 45 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 14 39.00	331 00 00	85 48 00	
AMES IOWA	42 01 43 N	266 20 59		10 14 49.00	006 32 28 *	34 27 24 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 15 06.50	288 07 00	44 42 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 15 14.60	003 02 00 *	35 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 15 45.00	146 00 00	67 42 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 16 15.20	004 15 00 *	20 50 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	10 16 29.00	004 27 00 *	19 24 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 16 30.50	148 00 00	52 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 16 38.80	004 36 00 *	16 48 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 16 59.00	148 00 00	45 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 17 24.50	005 20 00 *	05 40 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 17 26.00	148 00 00	38 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 17 55.00	148 00 00	33 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	10 17 57.00	202 03 00 *	45 39 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	10 18 23.00	148 00 00	28 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 18 42.00	148 00 00	26 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 19 10.00	148 00 00	22 12 00	
AMES A IOWA	42 01 59 N	266 22 00	305	10 19 47.00	148 00 00	17 54 00	
WPALMB B FLA	27 00 00 N	279 51 00		10 20 55.88	006 05 36 *	04 45 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 05 25.00	012 49 00	60 54 00	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 51 28.00	003 40 00 *	87 30 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	11 51 40.60	008 35 04 *	60 07 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 51 56.00	007 20 00 *	82 24 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 52 18.00	001 08 24 *	50 43 00 *	
ALMG00-GS,NM	32 52 22 N	254 03 05	1339	11 52 35.00	001 30 00 *	50 00 00 *	
OENVR A COLO	39 44 52 N	255 03 24	1625	11 52 52.00	269 00 00	39 30 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	11 53 04.60	008 43 43 *	28 57 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 53 34.00	059 18 36	62 44 24	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	11 54 09.00	004 03 00 *	29 12 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
22 OCT 1958 (CONT)							
EOW AF D CAL	34 56 43 N	242 04 58	785	11 54 15.00	090 09 00	58 46 12	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	11 54 17.00	003 39 48 *	36 42 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	11 54 28.00	006 23 00 *	24 12 00 *	
VAN NUYS CAL	34 14 22 N	241 24 45	276	11 54 29.00	290 00 00	55 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 54 34.00	100 24 48	55 14 24	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	11 54 35.00	004 01 24 *	32 48 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 55 25.00	008 51 30 *	11 42 00 *	
EOW AF D CAL	34 56 43 N	242 04 58	785	11 55 34.00	119 30 00	42 52 48	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	11 55 41.00	005 09 30 *	14 36 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	11 55 59.00	005 25 54 *	09 06 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	11 56 21.00	009 06 00 *	- 12 06 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 56 34.00	128 38 24	32 21 00	
ORGN PASS,NM	32 25 24 N	253 26 51	1651	11 57 33.33	006 35 24 *	- 12 59 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 57 34.00	133 41 24	24 12 36	
ORGN PASS,NM	32 25 24 N	253 26 51	1651	11 57 51.31	006 44 48 *	- 16 39 00 *	
ORGN PASS,NM	32 25 24 N	253 26 51	1651	11 58 13.32	006 55 24 *	- 20 39 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	11 58 34.00	136 58 48	17 55 12	
EOW AF D CAL	34 56 43 N	242 04 58	785	11 59 34.00	139 18 00	12 43 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 00 34.00	140 56 24	08 27 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 01 34.00	142 16 48	04 33 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 01 51.00	142 33 36	03 34 48	
JDR L BNK ENG	53 14 11 N	357 41 36		21 14 56.00	327 18 00	32 30 00	800
JDR L BNK ENG	53 14 11 N	357 41 38		21 14 58.00	327 52 00	33 18 00	1400
JDR L BNK ENG	53 14 11 N	357 41 38		22 55 57.00	350 02 00	18 09 00	
23 OCT 1958							
EGLN AFB FLA	30 33 00 N	273 22 41		00 18 27.28	207 40 12	20 51 36	
EGLN AFB FLA	30 33 00 N	273 22 41		00 18 35.22	205 49 48	24 16 48	
EGLN AFB FLA	30 33 00 N	273 22 41		00 18 36.65	204 54 36	24 54 36	
EGLN AFB FLA	30 33 00 N	273 22 41		00 18 45.23	205 45 36	30 46 12	
EGLN AFB FLA	30 33 00 N	273 22 41		00 19 04.29	303 57 36	41 21 00	
EGLN AFB FLA	30 33 00 N	273 22 41		00 19 04.48	209 01 48	40 06 36	
EGLN AFB FLA	30 33 00 N	273 22 41		00 19 05.11	207 54 00	41 16 12	
EGLN AFB FLA	30 33 00 N	273 22 41		00 19 22.63	204 42 00	60 30 00	
EGLN AFB FLA	30 33 00 N	273 22 41		00 19 22.69	211 36 36	58 45 00	
EGLN AFB FLA	30 33 00 N	273 22 41		00 19 22.71	201 29 24	61 00 36	
BILOXI MISS	30 23 27 N	271 05 26	7	00 19 42.00	090 00 00	50 00 00	
EGLN AFB FLA	30 33 00 N	273 22 41		00 20 40.12	020 34 52 *	24 55 34 *	
JDR L BNK ENG	53 14 11 N	357 41 36		00 36 24.00	014 06 00	23 30 00	1400
SHIPAZ IRAN	29 38 40 N	052 31 33	1600	00 49 51.79	007 08 18 *	37 03 00 *	
SHIPAZ IRAN	29 38 40 N	052 31 33	1600	00 50 21.65	007 28 06 *	25 39 00 *	
SHIRAZ IRAN	29 38 40 N	052 31 33	1600	00 50 38.65	007 37 06 *	19 24 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 56 29.00	020 34 00 *	- 05 00 00 *	
S FERNND SP	36 27 42 N	353 47 42	30	05 37 32.37	001 54 12 *	21 21 00 *	
S FERNND SP	36 27 42 N	353 47 42	30	05 40 02.98	003 34 06 *	00 37 00 *	
S FERNND SP	36 27 42 N	353 47 42	30	05 43 32.28	005 23 24 *	- 31 54 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	10 27 18.50	270 00 00	34 00 00	
DANVILLE ILL	40 08 57 N	272 22 26	189	10 28 05.00	246 30 00	40 30 00	
ALMGDO-GS,NM	32 52 23 N	254 02 57	1335	10 28 14.00	009 55 54 *	38 48 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 28 32.00	009 51 00 *	33 36 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	10 28 33.00	009 37 00 *	61 00 00 *	
EVNSVILLE IND	37 58 14 N	272 28 06	129	10 28 44.00	003 58 00 *	12 24 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	10 28 49.00	229 30 00	39 30 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 28 51.00	009 49 00 *	28 24 00 *	
EVNSVILLE IND	37 58 14 N	272 28 06	129	10 29 00.00	004 13 00 *	08 42 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	10 29 01.00	009 32 00 *	17 12 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	10 29 06.50	225 00 00	37 00 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 29 09.03	009 46 00 *	23 54 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	10 29 20.00	009 29 00 *	12 30 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	10 29 25.00	009 30 00 *	11 30 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	10 29 40.00	213 00 00	35 30 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 29 55.00	009 40 36 *	13 00 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	10 30 14.00	009 39 48 *	09 12 00 *	
EVNSVILLE IND	37 58 14 N	272 28 06	129	10 30 16.00	005 11 00 *	- 08 48 00 *	
EGLN AFB FLA	30 30 00 N	273 22 41		10 30 25.48	005 04 10 *	08 47 44 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	10 30 32.00	200 00 00	29 30 00	
EGLN AFB FLA	30 30 00 N	273 22 41		10 31 21.36	004 22 25 *	22 16 19 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 33 15.50	010 04 30 *	17 00 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 33 34.90	010 06 30 *	12 10 00 *	
DANVILLE ILL	40 08 57 N	272 22 26	189	10 33 35.00	179 30 00	12 30 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	11 04 35.00	263 15 00	25 30 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
23 OCT 1958 (CONT)							
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	12 05 47.00	002 35 42 *	22 48 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	12 05 47.00	002 59 00 *	15 30 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	12 06 05.00	002 49 54 *	19 30 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	12 06 05.00	003 14 00 *	11 42 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	12 06 19.00	003 23 00 *	09 12 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	12 06 43.00	003 18 30 *	12 30 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	12 07 01.00	003 30 30 *	09 00 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	12 07 57.00	004 10 00 *	02 24 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	12 08 15.00	004 22 00 *	06 30 00 *	
JDR L BNK ENG	53 14 11 N	357 41 38		21 26 19.00	333 22 00	25 30 00	1000
JDR L BNK ENG	53 14 11 N	357 41 38		23 06 52.00	356 00 00	18 15 00	1350
24 OCT 1958							
EDINBURG TEX	26 18 20 N	261 49 39	28	00 30 04.00	043 00 00	16 00 00	
BRYAN TEX	30 38 14 N	263 39 58	92	00 30 21.00	000 10 00 *	27 42 00 *	
EGLN AFB FLA	30 23 05 N	273 33 07		00 30 22.48	295 18 00	22 48 00	
EGLN AFB FLA	30 23 32 N	273 25 50		00 30 24.00	297 33 00	23 25 48	
EGLN AFB FLA	30 23 50 N	273 21 00		00 30 24.00	296 09 36	23 40 12	
BRYAN TEX	30 38 14 N	263 39 58	92	00 30 33.20	001 07 00 *	35 18 00 *	
BRYAN TEX	30 38 14 N	263 39 58	92	00 30 43.80	001 56 30 *	43 12 00 *	
EGLN AFB FLA	30 23 32 N	273 25 50		00 30 51.00	317 07 12	23 06 00	
EGLN AFB FLA	30 23 05 N	273 33 07		00 31 08.24	326 30 00	21 06 00	
EGLN AFB FLA	30 23 50 N	273 21 00		00 31 08.24	328 01 48	21 45 00	
AMES A IOWA	42 01 59 N	266 22 00	305	00 31 09.00	157 00 00	15 30 00	
EGLN AFB FLA	30 23 05 N	273 33 07		00 31 16.48	332 01 12	20 10 48	
EGLN AFB FLA	30 23 32 N	273 25 50		00 31 16.48	333 45 36	20 31 48	
EGLN AFB FLA	30 23 50 N	273 21 00		00 31 18.00	333 38 24	20 34 12	
MIL RAD MASS	42 37 03 N	288 30 28	155	00 32 33.80	263 00 60	08 23 24	1380
MIL RAD MASS	42 37 03 N	288 30 28	155	00 33 29.88	273 07 12	13 56 12	1119
MIL RAD MASS	42 37 03 N	288 30 28	155	00 34 20.00	296 42 00	17 18 00	993
MIL RAD MASS	42 37 03 N	288 30 28	155	00 34 33.70	304 10 48	19 12 00	973
MIL RAD MASS	42 37 03 N	288 30 28	155	00 35 27.60	329 42 36	19 33 00	975
MIL RAD MASS	42 37 03 N	288 30 28	155	00 36 29.32	352 10 00	16 51 36	1215
MIL RAD MASS	42 37 03 N	288 30 28	155	00 37 29.55	006 16 48	11 25 12	1515
EDW AF D CAL	34 56 43 N	242 04 58	785	02 06 40.00	167 57 18	31 23 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 06 50.00	161 03 00	36 22 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 07 00.00	150 57 00	41 01 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 07 10.00	137 36 54	45 00 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 07 20.00	121 36 00	47 15 29	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 07 30.00	104 33 36	47 01 30	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 07 40.00	089 34 48	44 34 12	
TUCSON ARIZ	32 13 59 N	249 03 51	227	02 07 50.00	319 00 00	29 00 00	
CINCINNATI MO	39 09 06 N	275 32 15		09 02 11.00	132 00 00	34 30 00	
CINCINNATI MO	39 09 06 N	275 32 15		09 03 35.00	137 45 00	22 30 00	
OAYTON MO	39 50 14 N	275 44 02	249	09 05 24.00	008 32 00 *	27 15 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 12 35.00	010 26 00 *	38 30 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 15 18.00	011 02 00 *	13 00 00 *	
CINCINNATI MO	39 09 06 N	275 32 15		10 38 53.00	246 00 00	21 00 00	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 42 38.80	008 28 24 *	24 15 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 43 29.30	008 43 00 *	06 36 00 *	
OAYTON MO	39 50 14 N	275 44 03	249	10 43 34.80	005 23 00 *	38 20 00 *	
EVNSVILLE IND	37 58 14 N	272 28 08	129	11 40 14.00	002 45 00 *	03 30 00 *	
EVNSVILLE IND	37 58 14 N	272 28 08	129	11 41 38.00	005 07 00 *	20 00 00 *	
EVNSVILLE IND	37 58 14 N	272 28 08	129	11 43 22.00	005 20 00 *	37 00 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 16 31.00	162 27 00	36 46 12	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 16 40.40	006 09 55 *	17 54 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	12 17 19.30	006 28 15 *	23 37 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 17 31.00	197 05 06	36 10 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 18 31.00	186 57 54	28 01 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 19 31.00	180 36 36	21 11 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 20 31.00	176 21 00	15 32 24	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 21 31.00	173 25 12	10 48 36	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 22 31.00	171 10 19	06 43 12	
EDW AF D CAL	34 56 43 N	242 04 58	785	12 23 24.00	169 39 36	03 33 00	
MGRO NICE FR	43 43 17 N	007 18 01	376	18 14 12.00	030 36 00	24 00 00	
JDR L BNK ENG	53 14 11 N	357 41 38		21 35 26.00	328 47 00	21 31 00	1130
WASHGTON A OC	38 45 30 N	282 47 30	69	23 03 04.00	107 30 00	24 00 00	
ST COLL PA	40 44 01 N	282 06 33	393	23 03 09.00	120 00 00	16 00 00	
GRNSBRO A NC	36 04 38 N	280 07 57	265	23 03 27.00	001 45 00 *	25 30 00 *	
ARLINGTON VA	38 50 48 N	282 53 35	59	23 03 36.00	090 00 00	21 54 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
24 OCT 1958 (CONT)							
ST COLL PA	40 44 01 N	282 06 33	393	23 03 44.00	102 00 00	17 00 00	
BRYN ATHN PA	40 08 00 N	284 56 00	85	23 03 58.00	090 00 00	29 00 00	
ST COLL PA	40 44 01 N	282 06 33	393	23 04 10.00	090 00 00	17 00 00	
ST COLL PA	40 44 01 N	282 06 33	393	23 04 42.00	001 51 00 *	19 24 00 *	
25 OCT 1958							
PUEBLA P MEX	19 03 00 N	261 49 00	2200	00 35 25.70	310 00 00	18 00 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	00 37 01.00	300 00 00	38 20 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	00 37 02.30	300 00 00	39 50 00	
EDINBURG TEX	26 18 20 N	261 49 39	28	00 37 12.30	315 00 00	37 00 00	
BRYAN TEX	30 38 14 N	263 39 58	92	00 37 59.80	016 53 30 *	31 18 00 *	
WICHITA KAN	37 41 44 N	262 45 19	413	00 38 42.30	020 21 19 *	- 20 48 00 *	
BRYAN TEX	30 38 14 N	263 39 58	92	00 38 47.90	016 15 00 *	80 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 38 54.00	199 30 00	14 12 00	
WICHITA KAN	37 41 44 N	262 45 19	413	00 39 10.90	021 17 00 *	- 04 54 00 *	
BTLSVL A OKL	36 42 18 N	264 03 36	213	00 39 17.00	180 00 00	69 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	00 39 22.00	195 30 00	20 30 00	
MANHATTN KAN	39 09 45 N	262 31 09	311	00 39 35.00	021 26 00 *	- 04 26 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 39 50.00	190 30 00	29 06 00	
LAWTON OKLA	34 39 44 N	261 35 47	358	00 40 00.00	042 18 00	27 00 00	
BTLSVL A OKL	36 42 18 N	264 03 36	213	00 40 06.00	000 07 00 *	59 15 00 *	
EVNSVILLE INO	37 58 14 N	272 28 08	129	00 40 09.00	017 37 30 *	- 02 45 36 *	
BTLSVL A OKL	36 42 18 N	264 03 36	213	00 40 14.00	000 50 00 *	61 00 00 *	
KANCITY MO	39 02 02 N	265 25 08	259	00 40 14.00	021 45 00 *	38 20 00 *	
EVNSVILLE INO	37 58 14 N	272 28 08	129	00 40 15.00	013 26 00 *	65 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 40 18.00	178 30 00	44 30 00	
BTLSVL A OKL	36 42 18 N	264 03 36	213	00 40 22.00	001 35 00 *	61 20 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	00 40 38.00	000 52 30 *	39 48 00 *	
AMES IOWA	42 01 43 N	266 20 59		00 40 54.00	022 27 19 *	24 36 58 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 40 54.00	118 30 00	61 42 00	
AMES IOWA	42 01 43 N	266 20 59		00 41 14.00	023 48 38 *	39 13 41 *	
SUNYVALE CAL	37 21 00 N	237 56 24	61	02 15 46.80	022 03 36 *	06 24 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 16 10.80	022 39 04 *	10 33 00 *	
WLNTCK O CAL	37 57 54 N	238 00 13		02 16 28.00	023 57 00 *	32 00 00 *	
SAN JOSE CAL	37 23 01 N	238 11 13	122	02 16 37.00	001 07 00 *	42 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 16 40.70	000 15 41 *	31 16 00 *	
SUNYVALE CAL	37 21 00 N	237 56 24	61	02 17 01.60	002 01 36 *	46 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	02 17 03.00	022 15 00 *	- 15 30 00 *	
SUNYVALE CAL	37 21 00 N	237 56 24	61	02 17 18.00	002 38 00 *	47 12 00 *	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 13 00.00	141 00 00	51 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 14 38.00	148 00 00	31 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 15 33.00	150 00 00	23 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 16 09.00	150 00 00	19 00 00	
WPALMB A FLA	26 39 30 N	279 55 20	5	09 17 24.00	152 00 00	12 00 00	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 22 31.00	010 16 00 *	17 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 24 05.00	010 46 00 *	- 02 00 00 *	
AREQUIPA PER	16 27 43 S	288 30 31	2452	09 24 31.28	010 08 30 *	05 38 00 *	
AREQUIPA PER	16 27 43 S	288 30 31	2452	09 25 30.69	010 39 18 *	- 07 06 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 49 05.00	004 58 06 *	44 00 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 52 59.50	007 36 42 *	- 31 35 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 54 05.20	007 58 18 *	- 40 12 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	15 40 24.94	003 03 24 *	- 04 56 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	15 40 36.96	003 08 00 *	- 07 07 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	15 40 48.98	003 12 36 *	- 09 13 00 *	
THSLONIKI GR	40 38 00 N	022 57 00		16 44 21.00	019 54 00 *	08 00 00 *	
THSLONIKI GR	40 38 00 N	022 57 00		16 44 43.00	021 00 00 *	31 00 00 *	
THSLONIKI GR	40 38 00 N	022 57 00		16 45 19.00	000 10 00 *	57 00 00 *	
S FERNND SP	36 27 42 N	353 47 42	30	18 19 23.62	021 05 42 *	- 05 34 00 *	
S FERNND SP	36 27 42 N	353 47 42	30	18 19 27.62	021 16 24 *	- 02 18 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	18 21 22.80	193 26 00	16 01 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 21 41.50	189 49 00	20 03 00	
S FERNND SP	36 27 42 N	353 47 42	30	18 21 42.02	003 14 18 *	48 20 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	18 21 54.50	186 39 00	23 20 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 22 08.50	182 06 00	21 37 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 22 21.30	176 33 00	31 58 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 22 33.30	169 42 00	36 25 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 22 46.30	159 38 00	41 28 00	
BIARRITZ FR	43 28 00 N	358 26 48	162	18 23 11.40	131 58 00	48 18 00	
AOLAI C AUS	34 44 00 S	138 40 00		18 24 05.00	056 00 00	30 00 00	
GRNSBRO A NC	36 04 38 N	280 07 57	265	19 07 26.00	011 05 00 *	08 30 00 *	
				23 08 59.00	000 50 00 *	37 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR PGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
26 OCT 1958							
BRYAN TEX	30 38 14 N	263 39 58	92	00 44 19.40	012 07 30 *	06 18 00 *	
BRYAN TEX	30 38 14 N	263 39 58	92	00 44 28.30	012 00 00 *	15 06 00 *	
BRYAN TEX	30 38 14 N	263 39 58	92	00 44 37.70	011 52 00 *	24 00 00 *	
BRYAN TEX	30 38 14 N	263 39 58	92	00 44 45.90	011 40 00 *	32 48 00 *	
BRYAN TEX	30 38 14 N	263 39 58	92	00 44 56.00	011 26 00 *	41 30 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	00 44 59.00	276 00 00	37 36 00	
OK CY A OKLA	35 33 50 N	262 29 20	360	00 45 13.00	014 18 00 *	75 30 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	00 45 41.00	328 00 00	39 00 00	
OK CY A OKLA	35 33 50 N	262 29 20	360	00 45 57.00	000 00 00	28 00 00	
MANHATTN KAN	39 09 45 N	263 31 09	311	00 45 54.00	017 28 00 *	12 40 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	00 46 31.00	017 38 00 *	52 00 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	00 46 43.00	005 24 00	19 48 00	
WICHITA KAN	37 41 44 N	262 45 19	413	00 46 55.70	008 33 28 *	37 00 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	00 47 13.50	004 20 00 *	29 49 00 *	
LINCOLN NEB	40 50 18 N	262 20 48	355	00 47 25.20	023 33 00 *	77 30 00 *	
LAWTON OKLA	34 39 44 N	261 35 47	358	00 47 28.00	012 42 00	14 18 00	
LAWTON OKLA	34 39 44 N	261 35 47	358	00 47 46.00	015 00 00	17 54 00	
BTLSVL A OKL	36 42 18 N	264 03 36	212	00 48 19.70	015 20 00 *	60 00 00 *	
WLNTCK D CAL	37 57 54 N	237 00 10		02 21 54.10	017 34 00 *	14 00 00 *	
SAN JOSE CAL	37 23 01 N	237 11 13	122	02 22 05.50	012 40 00 *	47 15 00 *	
WLNTCK B CAL	37 57 52 N	237 56 14	9	02 22 28.30	017 49 30 *	51 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 22 49.20	018 13 34 *	64 24 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	02 25 10.00	003 16 00 *	39 12 00 *	
OAKLAND CAL	37 47 00 N	237 48 00	30	02 27 52.00	012 33 00 *	70 10 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	02 32 23.50	021 26 00 *	05 00 00 *	
KONKO J	34 32 31 N	123 37 40	4	08 45 27.00	180 00 00	27 30 00	
KONKO J	34 32 31 N	123 37 40	4	08 46 11.00	121 00 00	53 00 00	
AREQUIPA PER	16 27 43 S	289 30 31	2452	09 27 49.48	007 30 18 *	38 01 00 *	
AREQUIPA PER	16 27 43 S	289 30 31	2452	09 29 41.85	008 35 30 *	10 29 00 *	
AREQUIPA PER	16 27 43 S	289 30 31	2452	09 31 34.25	009 54 06 *	24 06 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 56 17.50	005 23 54 *	03 40 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 56 54.40	005 01 18 *	15 27 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 57 12.80	005 13 24 *	21 03 00 *	
PUEBLA P MEX	19 03 00 N	261 49 00	2200	10 58 22.90	005 51 30 *	25 38 00 *	
MAUI HAWAII	20 42 56 N	203 44 23	3048	14 09 27.75	007 50 18 *	15 24 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 09 30.73	007 54 30 *	18 04 00 *	
MAUI HAWAII	20 42 36 N	203 44 23	3048	14 09 47.71	007 56 54 *	18 45 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 52 17.20	170 00 00	09 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 52 22.50	167 30 00	13 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 52 32.80	164 54 00	11 42 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 26 10.00	234 00 00	24 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 27 15.00	302 00 00	67 30 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 27 47.00	358 00 00	58 12 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 28 07.00	015 00 00	44 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 28 30.00	023 00 00	20 12 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 29 10.00	027 12 00	21 00 00	
ADLAIO C AUS	34 44 00 S	138 40 00		19 11 13.00	010 07 00 *	17 30 00 *	
CAROC CAN	46 47 10 N	288 43 45	91	23 16 22.00	018 35 00 *	58 42 00 *	
27 OCT 1958							
KANCITY MO	39 02 02 N	265 25 08	259	00 50 25.00	270 00 00	14 00 00	
MANHTN A KAN	39 15 58 N	263 22 38	408	00 50 42.00	015 33 14 *	27 50 24 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 26 41.50	015 21 17 *	26 54 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 26 51.30	015 20 19 *	33 11 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 27 28.50	014 15 47 *	55 36 00 *	
SUNYVALE CAL	37 21 00 N	237 56 24	61	02 27 30.00	013 30 24 *	60 12 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 28 38.00	009 30 15 *	70 01 00 *	
BOISE IDA	43 36 30 N	243 32 30	1006	02 29 45.00	292 00 00	24 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	02 30 59.50	016 18 00 *	46 30 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 50 37.44	015 06 24 *	24 08 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 50 47.50	291 00 00	22 42 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 51 37.67	013 37 12 *	56 44 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 51 46.10	326 54 00	22 12 00	
MITAKA J	35 40 20 N	139 32 30	50	08 52 36.10	350 36 00	16 36 00	
MITAKA J	35 40 20 N	139 32 30	50	08 53 08.60	359 24 00	13 06 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 53 09.28	008 27 30 *	67 36 00 *	
MIZUKAIDO J	36 00 56 N	139 59 18	12	08 53 40.00	000 00 00	14 30 00	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 30 16.84	005 12 00 *	44 40 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 33 05.96	006 29 00 *	11 58 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 37 25.86	010 39 30 *	62 55 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
27 OCT 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 25.20	181 42 00	12 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 32.00	180 18 00	12 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 39.50	178 24 00	13 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 50.30	175 48 00	15 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 01.20	172 42 00	16 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 15.70	168 06 00	18 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 28.10	163 42 00	21 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 36.70	160 18 00	21 18 00	
SSLVOR C RWI	24 03 59 N	285 27 49	15	16 56 53.20	153 00 00	23 24 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 26 55.00	260 00 00	13 48 00	
AGEN FRANCE	44 10 36 N	000 35 42		18 27 30.00	266 24 00	26 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 27 40.00	266 12 00	26 36 00	
AGEN FRANCE	44 10 36 N	000 35 42		18 29 00.00	351 30 00	26 30 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 29 30.00	344 00 00	31 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 29 45.00	353 30 00	27 48 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 30 05.00	001 00 00	24 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 30 35.00	011 06 00	18 30 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 31 00.00	014 46 00	15 48 00	
FARNHAM ENG	51 12 00 N	359 12 00		18 31 03.00	019 27 00 *	11 30 00 *	
ORFONESS ENG	52 06 00 N	001 36 00		18 31 11.50	221 30 00	35 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 31 20.00	017 00 00	14 12 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 31 21.10	206 48 00	45 24 00	
FARNHAM ENG	51 12 00 N	359 12 00		18 31 37.00	020 40 00 *	35 00 00 *	
WOKING ENG	51 18 00 N	359 27 00		18 31 45.00	021 00 00 *	40 00 00 *	
BATTERSE ENG	51 28 00 N	359 51 00		18 31 45.00	020 22 42 *	37 12 00 *	
BONN B GER	50 43 45 N	007 05 47	62	18 31 55.00	016 39 00 *	32 18 00 *	
CHELMSFD ENG	51 43 00 N	000 30 00		18 31 57.00	022 40 00 *	42 00 00 *	
ORFONESS ENG	52 06 00 N	001 36 00		18 31 57.30	221 30 00	65 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 32 17.10	003 06 00	74 54 00	
BONN B GER	50 43 45 N	007 05 47	62	18 32 52.00	014 50 00 *	68 30 00 *	
28 OCT 1958							
ALMGROD A NM	32 52 23 N	254 02 57	1335	00 52 30.00	012 20 30 *	65 48 00 *	
ALMGROD A NM	32 52 23 N	254 02 57	1335	00 52 40.70	011 45 42 *	68 00 00 *	
ALMGROD A NM	32 52 23 N	254 02 57	1335	00 54 05.00	007 33 48 *	66 12 00 *	
MANHATN B KAN	39 13 51 N	263 22 54	409	00 55 28.50	345 17 48	13 43 00	
MLWKEE B WIS	42 59 25 N	272 01 15		00 56 45.00	012 30 00 *	53 40 00 *	
MLWKEE B WIS	42 59 25 N	272 01 15		00 57 03.00	011 48 00 *	55 40 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 29 11.20	014 46 30 *	74 36 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 30 32.50	012 53 14 *	54 03 00 *	
WLNTCK O CAL	37 57 54 N	238 00 10		02 30 39.70	012 13 00 *	57 12 00 *	
PORTLAND ORE	45 29 19 N	237 27 27	46	02 30 59.60	016 18 00 *	46 30 00 *	
PORTLAND ORE	45 29 19 N	237 27 27	46	02 31 34.50	014 30 00 *	74 06 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	03 57 43.00	003 00 00 *	60 00 00 *	
AREQUIPA PER	16 23 05 S	288 27 55	2377	09 35 26.57	004 58 06 *	03 12 00 *	
LEPUY FRANCE	45 03 18 N	003 53 42		18 29 10.00	330 00 00	28 30 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 29 30.00	285 00 00	35 00 00	
LEPUY FRANCE	45 03 18 N	003 53 42		18 29 55.00	016 00 00	30 12 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 30 40.00	320 00 00	34 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 31 30.00	350 00 00	25 00 00	
HORSBROG ENG	50 53 00 N	000 15 00		18 32 11.00	252 00 00	33 00 00	
WOKING ENG	51 18 00 N	359 27 00		18 33 05.00	018 06 00 *	49 00 00 *	
BATTERSE ENG	51 28 00 N	359 51 00		18 33 08.60	017 54 30 *	51 30 00 *	
HORSBROG ENG	50 53 00 N	000 15 00		18 33 17.00	314 00 00	55 00 00	
FARNHAM ENG	51 12 00 N	359 12 00		18 33 45.00	000 00 00	85 30 00	
ADLAID C AUS	34 44 00 S	138 40 00		19 13 45.00	007 35 00 *	32 00 00 *	
JORL BNK ENG	53 14 11 N	357 41 38		20 12 29.00	334 05 00	24 42 00	1050
LANSG A MICH	42 44 00 N	275 31 00	261	23 17 31.50	232 00 00	43 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 18 00.00	327 27 00	43 03 00	
LANSG A MICH	42 44 00 N	275 31 00	261	23 18 31.00	019 15 00 *	67 35 00 *	
LANSG A MICH	42 44 00 N	275 31 00	261	23 18 35.00	017 43 00 *	46 02 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	23 19 12.00	010 35 00 *	73 00 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	23 19 23.00	000 00 00	11 48 00	
LANSG A MICH	42 44 00 N	275 31 00	261	23 22 00.00	005 13 00 *	45 30 00 *	
29 OCT 1958							
MANHATTN KAN	39 09 45 N	263 31 09	311	00 55 00.00	013 35 00 *	39 00 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	00 56 09.00	011 55 00 *	54 26 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 31 15.10	012 54 08 *	47 42 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 31 35.20	012 22 44 *	51 51 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 OCT 1958 (CONT)							
SJUAN-GS ARG	31 30 37 S	291 22 46	650	08 01 30.00	009 55 00 *	16 12 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 54 47.00	014 50 00 *	- 27 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 55 47.00	013 38 00 *	48 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 56 10.00	012 45 00 *	55 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 56 21.00	012 13 00 *	57 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 56 47.00	011 03 00 *	62 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 57 18.00	009 32 00 *	62 00 00 *	
AREQUIRA PER	16 27 43 S	288 30 31	7452	09 35 12.80	003 44 54 *	- 03 13 00 *	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 05 56.10	262 18 00	31 36 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 30 20.00	293 36 00	11 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 31 00.00	310 30 00	14 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 31 11.50	254 06 00	18 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 31 30.00	349 00 00	14 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 31 46.30	265 18 00	25 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 31 56.10	262 18 00	31 36 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 32 00.00	356 48 00	13 06 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 32 15.00	000 48 00	11 42 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 32 22.00	276 36 00	35 00 00	
GELEEN NETH	50 57 55 N	005 49 27		18 32 22.80	015 32 30 *	26 48 00 *	
BIARRITZ FR	43 28 00 N	358 26 48		18 32 30.00	003 42 00	10 48 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 32 40.10	292 36 00	46 30 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 32 45.00	006 30 00	09 48 00	
HORSBRDG ENG	50 53 00 N	000 15 00		18 32 47.00	317 00 00	40 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 33 00.00	009 30 00	18 54 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 33 00.00	304 42 00	43 00 00	
HORSBRDG ENG	50 53 00 N	000 15 00		18 33 11.00	337 00 00	41 00 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 33 15.00	011 48 00	07 42 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 33 20.90	327 12 00	44 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 33 24.50	343 48 00	47 30 00	
BIARRITZ FR	43 28 00 N	358 26 48		18 33 30.00	015 54 00	07 00 00	
HORSBRDG ENG	50 53 00 N	000 15 00		18 33 45.00	001 00 00	30 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 33 52.50	001 00 00	37 00 00	
OLST NETH	52 19 51 N	006 08 28		18 34 12.60	012 05 00 *	65 12 00 *	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	18 34 31.00	350 00 00	33 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 34 33.30	017 48 00	27 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 35 05.40	039 18 00	22 00 00	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	18 35 31.00	014 00 00	60 00 00	
ADLAID C AUS	34 44 00 S	138 40 00		19 14 05.00	007 06 00 *	21 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	19 14 30.56	005 01 36 *	01 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	19 14 53.95	008 22 30 *	- 06 25 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	19 15 09.95	005 37 30 *	- 11 35 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 16 33.80	245 00 00	27 00 00	
ST COLL R PA	40 44 00 N	282 06 33	393	23 16 55.00	013 28 00 *	23 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 17 06.50	013 37 00 *	54 54 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	23 17 17.20	015 17 00 *	20 12 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	23 17 34.00	012 10 00 *	54 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 18 00.00	327 27 00	43 03 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	23 18 20.80	013 51 42 *	52 00 00 *	
LANGS A WICH	42 44 00 N	275 31 00	261	23 18 25.00	000 00 00	27 00 00	
ST COLL PA	40 44 01 N	282 06 33	393	23 18 37.00	012 02 00 *	55 30 00 *	
ST COLL R RA	40 44 00 N	282 06 33	393	23 19 05.00	011 00 00 *	60 00 00 *	
BRISTOL TENN	36 35 03 N	277 50 31	527	23 19 08.00	000 00 00	08 00 00	
ST COLL P RA	40 44 00 N	282 06 33	393	23 20 12.00	000 00 00	09 30 00	
30 OCT 1958							
MANHTN B KAN	39 13 51 N	263 22 54	409	00 55 16.60	011 48 30 *	51 42 00 *	
MANHATTN KAN	39 09 45 N	263 31 09	311	00 55 21.70	011 42 30 *	52 25 00 *	
STFO RES CAL	37 24 11 N	237 49 29	152	00 55 51.00	120 00 00	43 02 00	580
MANHATTN KAN	39 13 51 N	263 22 54	409	00 55 53.00	010 52 00 *	55 00 00 *	
STFO RES CAL	37 24 11 N	237 49 29	152	02 28 30.00	300 00 00	07 20 00	1600
VANCOUVER BC	49 15 46 N	236 44 57	105	02 30 49.00	015 47 12 *	32 00 00 *	
VANCOUVER PC	49 15 46 N	236 44 57	105	02 31 04.50	015 30 00 *	43 00 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	08 02 42.00	011 03 00 *	- 13 06 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	09 03 39.74	021 24 48 *	- 07 38 00 *	
AREQUIRA PER	16 27 43 S	288 30 31	7452	09 34 11.40	003 02 42 *	- 17 06 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	12 55 16.60	010 52 00 *	55 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		18 31 23.00	359 00 00	51 00 00	
BONN B GER	50 43 45 N	007 05 47	62	18 31 24.00	013 37 00 *	48 24 00 *	
BONN B GER	50 43 45 N	007 05 47	62	18 31 50.50	012 11 00 *	56 18 00 *	
WMERA MT AUS	31 06 09 S	136 46 59	160	20 46 27.90	328 48 00	33 06 00	

STATION	LATITUDE	LONGITUDE FAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
30 OCT 1958 (CONT)							
WMERA MT AUS	31 06 09 S	136 46 59	160	20 46 34.60	328 00 00	34 30 00	
WMERA MT AUS	31 06 09 S	136 46 59	160	20 48 07.90	322 36 00	59 48 00	
WMERA MT AUS	31 06 09 S	136 46 59	160	20 50 53.40	160 06 00	73 00 00	
NA TAL INDIA	29 21 32 N	079 25 54	1924	21 36 52.98	009 54 48 *	34 43 00 *	
CINCINATI B O	39 09 06 N	275 32 15		23 14 07.00	312 30 00	18 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 14 08.00	307 30 00	19 31 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 14 51.00	012 05 00 *	56 54 00 *	
N CANTON B O	41 04 50 N	278 26 02		23 14 54.00	013 20 00 *	45 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 15 18.50	010 53 00 *	61 30 00 *	
N CANTON B O	41 04 50 N	278 26 02		23 15 20.00	012 16 00 *	57 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 15 48.80	009 27 00 *	63 30 00 *	
31 OCT 1958							
UNION JOHNSB	26 10 55 S	078 04 30	1806	01 33 08.00	009 19 00 *	03 18 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	09 46 50.00	179 00 00	42 00 00	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	18 24 11.00	016 50 00 *	02 00 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	18 24 21.00	016 51 00 *	04 54 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	18 25 08.00	016 53 00 *	24 12 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	18 25 09.70	296 39 00	14 05 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 25 20.40	280 24 00	22 06 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 25 28.70	303 15 00	15 39 00	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	18 25 35.00	016 53 00 *	43 12 00 *	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	18 25 45.00	016 53 00 *	51 24 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	18 25 45.60	309 28 00	16 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 25 57.70	313 58 00	17 26 00	
ORFONESS ENG	52 06 00 N	001 36 00		18 25 58.00	294 36 00	24 00 00	
ONSK-A.N.IRE	52 23 13 N	353 39 43	86	18 26 03.00	016 49 00 *	67 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	18 26 13.00	320 13 00	17 56 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 26 14.60	307 24 00	30 30 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 26 23.40	324 20 00	18 13 00	
FARNHAM ENG	51 12 00 N	359 12 00		18 26 24.00	013 12 00 *	55 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	18 26 38.50	330 28 00	18 17 00	
CHELMSFD ENG	51 43 00 N	000 30 00		18 26 40.00	013 15 00 *	56 00 00 *	
NTN STEW ENG	54 57 00 N	355 30 00		18 26 50.00	000 00 00	59 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 26 52.30	335 48 00	18 13 00	
ORFONESS ENG	52 06 00 N	001 36 00		18 26 58.10	327 48 00	29 00 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 27 01.30	337 30 00	31 54 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 27 20.80	346 18 00	17 17 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 27 38.70	357 36 00	28 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 27 40.10	352 36 00	16 23 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 27 55.70	357 20 00	15 27 00	
ORFONESS ENG	52 06 00 N	001 36 00		18 28 00.00	357 36 00	25 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 28 08.20	000 46 00	14 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 28 22.50	004 21 00	13 46 00	
CAMBR U ENG	52 12 51 N	000 05 41	28	18 28 26.70	014 18 00	21 42 00	
ORFONESS ENG	52 06 00 N	001 36 00		18 28 42.50	013 16 00	20 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		18 29 20.30	020 06 00	16 00 00	
ADLATO A AUS	34 55 14 S	138 36 14	55	19 08 27.00	005 43 00 *	03 00 00 *	
ADLATO C AUS	34 44 00 S	138 40 00		19 09 35.00	006 21 00 *	29 00 00 *	
ADLATO A AUS	34 55 14 S	138 36 14	55	19 09 52.00	235 00 00	84 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 41 03.50	319 18 00	21 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 41 09.80	319 54 00	21 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 41 41.80	316 36 00	26 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 47 09.00	176 30 00	34 54 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 47 28.30	169 30 00	31 54 00	
1 NOV 1958							
SJUAN-GS ARG	31 30 37 S	291 22 46	650	07 52 41.00	009 30 00 *	06 24 00 *	
SSLVDR C RWI	24 03 59 N	285 27 49	15	16 44 30.30	227 42 00	22 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 44 30.40	227 54 00	22 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 44 40.40	227 18 00	25 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 44 54.50	226 12 00	29 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 05.40	225 06 00	33 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 19.70	223 18 00	39 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 31.70	220 54 00	44 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 42.60	217 36 00	51 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 54.40	212 18 00	58 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 07.50	201 12 00	67 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 22.70	169 24 00	75 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 03.50	078 48 00	60 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1 NOV 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 24.90	070 18 00	48 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 36.90	067 48 00	43 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 49.70	065 48 00	37 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 48 06.10	064 18 00	33 06 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 19 01.60	295 38 00	11 07 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 19 27.90	303 21 00	13 03 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 19 46.40	309 20 00	14 12 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 19 56.50	312 41 00	14 43 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 20 07.30	316 39 00	15 14 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 20 22.20	321 53 00	15 44 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 20 34.60	326 22 00	16 04 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 20 53.90	333 20 00	16 15 00	
BUSSUM NETH	52 16 52 N	005 09 18		18 21 09.70	013 29 36 *	47 11 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	18 21 11.00	339 18 00	16 04 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 21 27.50	342 16 00	15 47 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 21 39.40	348 40 00	15 17 00	
BUSSUM NETH	52 16 52 N	005 09 18		18 21 46.10	012 02 24 *	05 56 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	18 21 55.60	353 36 00	14 33 00	
GRONNGN NETH	53 12 18 N	006 34 01		18 22 04.40	012 09 00 *	56 48 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	18 22 07.60	356 57 00	14 07 00	
BUSSUM NETH	52 16 52 N	005 09 18		18 22 15.10	010 44 48 *	58 42 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	18 22 24.30	001 18 00	13 11 00	
MEUOON FR	48 48 18 N	002 13 52	162	18 22 37.10	004 25 00	12 26 00	
STEENWK NETH	52 47 29 N	006 06 38		18 22 47.30	009 47 00 *	58 54 00 *	
MEUOON FR	48 48 18 N	002 13 52	162	18 23 02.50	009 50 00	10 58 00	
BUSSUM NETH	52 16 52 N	005 09 18		18 23 23.10	008 16 00 *	54 22 00 *	
2 NOV 1958							
AMES A IOWA	42 01 59 N	266 27 00	305	00 54 49.50	018 14 00 *	53 12 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 55 36.00	354 30 00	45 00 00	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	07 45 55.00	009 16 00 *	13 54 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 18 45.00	001 42 00 *	40 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 20 17.00	001 30 00 *	56 00 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	18 05 43.00	012 44 00 *	53 00 00 *	
COPNGN B DEN	55 42 13 N	012 27 09	10	18 06 21.00	011 00 00 *	59 00 00 *	
AOLATO C AUS	34 44 00 S	138 40 00		18 55 21.00	004 03 00 *	23 30 00 *	
3 NOV 1958							
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 11 16.00	001 00 00 *	52 24 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	09 12 15.00	000 23 00 *	61 00 00 *	
ORFDNESS ENG	52 06 00 N	001 36 00		18 05 45.50	007 42 00	17 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 06 12.40	012 54 00	16 00 00	
ORFDNESS ENG	52 06 00 N	001 36 00		18 06 34.60	018 57 00	14 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 18 19.60	292 37 00	21 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 19 41.30	276 04 00	29 52 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 21 12.00	243 44 00	36 40 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 22 52.40	204 02 00	30 25 00	
PERTH AUS	32 00 07 S	115 51 10	5	20 24 15.30	184 31 00	20 14 00	
NA TAL INOIA	29 21 32 N	079 25 54	1924	22 05 53.68	007 35 54 *	02 37 00 *	
NA TAL INOIA	29 21 32 N	079 25 54	1924	22 13 23.91	006 46 48 *	10 42 00 *	
NA TAL INOIA	29 21 32 N	079 25 54	1924	23 49 49.92	010 24 48 *	34 43 00 *	
4 NOV 1958							
S FERNDO SP	36 27 42 N	353 47 42	30	05 07 18.90	004 35 06 *	23 36 00 *	
SANTIAGO CHI	33 33 44 S	289 18 43	580	07 26 24.00	008 20 00 *	04 52 00 *	
SPETSAI I GR	37 16 30 N	023 09 00		16 37 16.00	012 15 00 *	71 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	16 57 12.51	009 26 24 *	06 21 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	18 36 54.24	019 13 00 *	80 12 00 *	
5 NOV 1958							
SJUAN-GS ARG	31 30 37 S	291 22 46	650	07 15 11.00	009 22 00 *	43 24 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	08 51 19.00	001 05 00 *	34 54 00 *	
CHELSMFD ENG	51 43 00 N	000 30 00		17 39 38.00	010 50 00 *	54 30 00 *	
NTN STEW ENG	54 57 00 N	355 30 00		17 39 46.00	000 00 00	37 00 00	
WOOMER AUS	31 06 06 S	136 46 54	162	18 22 06.22	000 54 36 *	69 00 00 *	

STATION	LATITUDE	LONGITUDE		HEIGHT IN METERS	TIME GMT			AZIMUTH OR		ELEVATION OR		SLANT RANGE IN KM
		EAST			HR	MIN	SEC	RGT	ASCEN *	DECLINATION*		
6 NOV 1958												
COLL C ALAS	64 51 36 N	212 12 12		137	03	10	00.70	180	00 00			
LAPLAT C ARG	34 54 26 S	302 05 30			07	01	05.00	003	29 59 *		38 24 00	
SJUAN-GS ARG	31 30 37 S	291 22 46		650	07	01	08.00	010	20 00 *		- 33 40 36 *	
LAPLAT C ARG	34 54 26 S	302 05 30			07	01	44.80	003	39 25 *		- 48 54 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30			07	02	24.80	003	55 56 *		- 52 49 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30									- 71 27 30 *	
LAPLAT C ARG	34 54 26 S	302 05 30			07	03	05.70	005	50 01 *		- 85 55 42 *	
SJUAN-GS ARG	31 30 37 S	291 22 46		650	07	03	28.90	013	31 07 *		- 85 35 30 *	
AOLATO C AUS	34 44 00 S	138 40 00			08	36	57.00	000	47 00 *		- 35 48 00 *	
WOOMER C AUS	31 06 07 S	136 47 07		162	17	10	34.00	000	22 00 *		- 72 30 00 *	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	05	34.38	---	---		36 04 16	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	05	44.82	---	---		35 50 35	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	05	50.21	---	---		35 38 56	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	01.40	---	---		35 00 50	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	06.15	---	---		34 44 42	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	09.81	---	---		34 29 17	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	14.36	---	---		34 02 02	
WOOMER C AUS	31 06 06 S	136 46 54		162	18	06	17.00	001	13 24 *		- 57 43 00 *	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	18.08	---	---		33 49 44	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	23.76	---	---		33 12 25	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	27.25	212	27 22		32 59 53	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	30.22	---	---		32 43 41	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	39.17	---	---		31 46 26	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	44.94	---	---		31 10 05	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	53.48	---	---		30 10 19	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	06	56.46	202	09 32		29 48 04	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	01.10	---	---		29 09 04	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	04.50	199	40 34		28 49 52	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	11.03	---	---		27 54 40	
ADLATO C AUS	34 44 00 S	138 40 00			18	07	13.00	001	26 00 *		- 57 00 00 *	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	13.01	197	09 54		27 48 00	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	18.40	---	---		27 03 14	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	21.40	---	---		26 44 56	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	26.32	194	54 00		26 07 44	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	28.88	192	57 58		25 48 00	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	32.26	192	04 52		25 24 22	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	34.32	191	37 37		25 09 40	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	38.38	190	34 55		24 27 32	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	41.98	---	---		24 10 16	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	45.34	189	02 20		23 46 08	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	47.81	188	24 43		23 18 29	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	50.44	187	56 42		23 07 52	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	53.59	187	17 53		22 22 12	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	56.85	186	32 56		22 10 44	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	07	59.89	186	00 40		21 59 24	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	03.27	185	19 52		21 33 29	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	05.00	184	55 44		21 11 53	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	07.90	184	27 04		21 00 40	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	10.89	183	54 04		20 38 28	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	13.20	183	30 00		20 21 17	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	16.60	182	53 06		19 57 36	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	19.50	182	19 48		19 38 24	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	22.35	181	50 20		19 18 00	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	25.14	181	22 05		18 58 52	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	26.69	---	---		18 48 54	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	31.18	180	24 04		18 06 23	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	34.46	179	54 22		17 56 31	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	37.47	179	26 20		17 36 00	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	42.80	---	---		16 52 12	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	49.38	---	---		16 17 28	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	51.55	---	---		15 54 32	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	08	53.63	---	---		15 50 24	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	02.77	---	---		14 53 53	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	05.40	175	32 20		14 38 42	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	08.46	175	10 44		14 18 18	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	11.73	174	45 14		13 59 56	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	15.77	---	---		13 34 48	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	19.60	173	50 28		13 12 18	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	23.50	173	22 48		12 50 17	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	29.47	---	---		12 07 55	
WOOMER C AUS	31 06 07 S	136 47 07		162	18	09	37.52	---	---		11 30 40	

STATION		LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
6 NOV 1958 (CONT)								
WOOMER	AUS	31 06 07 S	136 47 07	162	18 09 41.43	171 27 18	11 09 11	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 09 43.96	171 11 56	10 56 13	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 09 47.53	170 51 14	10 36 04	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 09 50.30	170 35 46	10 22 26	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 09 54.85	---	09 58 12	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 09 58.18	169 52 16	09 41 20	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 00.97	169 36 22	09 27 11	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 05.64	169 10 44	09 03 18	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 09.13	---	08 44 20	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 14.18	---	08 20 35	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 16.84	168 14 02	08 06 29	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 20.20	167 57 25	07 50 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 23.76	---	07 33 54	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 26.48	---	07 20 46	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 35.73	---	06 39 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 38.90	166 30 04	06 23 13	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 10 55.53	---	05 09 22	
WOOMER	AUS	31 06 07 S	136 47 07	162	18 11 12.82	---	03 55 08	
7 NOV 1958								
COPNGN A	DEN	55 44 41 N	012 33 09		17 26 26.00	010 50 00 *	57 12 00 *	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 07.03	217 10 55	33 56 53	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 11.56	215 19 19	33 33 04	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 15.24	213 55 44	33 13 41	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 22.02	211 18 36	32 32 28	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 26.00	209 34 26	32 13 16	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 32.72	207 30 00	31 26 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 35.48	206 20 20	31 18 32	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 37.34	205 38 20	31 01 41	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 41.89	204 14 10	30 32 24	
ADLALO C	AUS	34 44 00 S	138 40 00		17 49 42.00	001 29 00 *	49 30 00 *	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 44.22	203 32 46	30 17 53	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 50.01	201 32 17	29 34 44	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 52.49	200 51 36	29 16 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 55.62	199 52 05	28 50 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 49 59.78	198 41 20	28 26 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 02.59	197 49 16	28 02 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 06.10	196 48 00	27 36 29	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 11.98	195 10 16	26 51 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 14.34	194 35 20	26 34 05	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 18.33	193 23 42	26 01 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 21.88	192 35 28	25 35 53	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 26.28	191 28 52	25 01 34	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 29.74	190 38 46	24 36 29	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 32.40	189 48 58	24 06 54	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 37.68	188 44 56	23 35 53	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 40.37	188 14 10	23 14 20	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 42.15	187 51 18	23 00 43	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 44.47	187 50 13	22 45 29	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 47.25	186 41 46	22 24 18	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 49.68	186 16 52	22 06 43	
WOOMER	AUS	31 06 06 S	136 46 54	162	17 50 51.69	020 36 36 *	78 20 00 *	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 54.16	185 22 44	21 33 29	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 50 56.70	184 51 58	21 15 11	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 03.96	183 31 16	20 21 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 05.67	183 07 52	20 10 08	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 08.20	182 44 24	19 52 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 12.44	181 57 40	19 22 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 14.56	181 34 30	19 07 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 17.76	181 07 44	18 46 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 20.78	180 37 05	18 25 34	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 24.43	180 01 16	17 54 46	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 29.16	179 18 00	17 27 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 31.56	178 54 36	17 11 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 35.64	178 18 00	16 46 12	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 40.78	177 35 20	16 11 53	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 45.88	176 53 17	15 38 53	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 47.89	176 36 18	15 25 48	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 50.51	176 14 53	15 08 42	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 54.38	175 42 54	14 47 28	

STATION		LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
7 NOV 1958 (CONT)								
WOOMER	AUS	31 06 07 S	136 47 07	162	17 51 57.58	175 21 40	14 26 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 01.35	174 52 19	14 02 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 04.89	174 26 20	13 43 05	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 07.21	174 07 48	13 29 10	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 09.46	173 53 46	13 14 56	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 11.19	173 40 55	13 04 55	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 13.54	173 35 08	12 51 58	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 16.33	172 59 17	12 32 24	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 19.16	172 45 32	12 18 54	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 21.71	172 30 00	12 04 23	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 25.82	172 03 04	11 40 37	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 30.98	171 30 11	11 12 29	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 35.24	171 06 40	10 51 07	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 38.50	170 48 00	10 31 37	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 48.05	169 50 49	09 41 53	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 52 57.55	169 01 55	08 52 19	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 53 07.18	168 13 23	08 05 02	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 53 17.67	167 22 34	07 13 59	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 53 25.97	166 42 40	06 36 36	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 53 35.34	166 01 12	05 52 08	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 53 44.35	165 24 04	05 14 20	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 53 53.11	164 47 49	04 36 32	
WOOMER	AUS	31 06 07 S	136 47 07	162	17 54 02.37	164 11 38	03 57 32	
MIL RAO MASS		42 37 03 N	288 30 28	155	20 13 40.00	004 00 00	17 00 00	1093
8 NOV 1958								
MIL RAO MASS		42 37 03 N	288 30 28	155	04 25 15.80	305 12 00	38 24 00	1140
MIL RAO MASS		42 37 03 N	288 30 28	155	04 26 38.60	283 30 00	55 18 00	903
MIL RAO MASS		42 37 03 N	288 30 28	155	04 27 41.00	227 00 00	63 18 00	854
MIL RAO MASS		42 37 03 N	288 30 28	155	04 29 32.20	174 06 00	37 30 00	1200
AOLATO C AUS		34 44 00 S	138 40 00		17 30 55.00	001 12 00 *	- 56 00 00 *	
WOOMER	AUS	31 06 06 S	136 46 54	162	17 32 30.54	017 35 00 *	- 75 50 00 *	
HARROGTE ENG		53 59 00 N	358 26 00		18 24 42.00	012 50 00 *	38 30 00 *	
9 NOV 1958								
COLLEGE ALAS		64 51 18 N	212 10 12		03 55 00.00	002 55 48 *	54 00 00 *	
COPNGN B OEN		55 42 13 N	012 27 09	10	16 29 18.00	010 48 02 *	55 40 00 *	
ADLATO C AUS		34 44 00 S	138 40 00		17 10 34.00	000 22 00 *	- 72 30 00 *	
WOOMER	AUS	31 06 06 S	136 46 54	162	17 10 42.74	019 20 00 *	- 81 25 00 *	
10 NOV 1958								
COPNGN A OEN		55 44 41 N	012 33 09		16 06 35.00	010 00 00 *	58 00 00 *	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 08 05.60	339 36 00	45 36 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 08 14.50	347 06 00	46 18 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 08 21.50	353 06 00	46 30 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 08 28.60	359 12 00	46 18 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 08 36.90	006 30 00	45 36 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 08 52.30	017 54 00	43 30 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 09 10.50	029 06 00	40 06 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 09 19.60	033 48 00	38 00 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 09 27.20	037 12 00	36 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 09 36.70	041 00 00	34 18 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 09 47.30	044 36 00	32 06 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 09 59.50	048 12 00	29 42 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 10 13.50	051 24 00	27 12 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	16 10 22.20	053 18 00	25 42 00	
WOOMER	AUS	31 06 06 S	136 46 54	162	16 48 13.69	015 35 12 *	- 73 52 00 *	
AOLATO C AUS		34 44 00 S	138 40 00		16 50 12.00	015 04 00 *	- 65 30 00 *	
NTN STEW ENG		54 57 00 N	355 30 00		17 42 06.00	000 00 00	21 00 00	
HORSBROG ENG		50 53 00 N	000 15 00		17 42 10.00	010 20 00 *	50 00 00 *	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 42 55.80	301 06 00	16 00 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 43 06.50	302 12 00	17 30 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 43 16.10	303 12 00	18 54 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 43 25.80	304 24 00	20 30 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 43 36.30	305 48 00	22 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 43 44.60	307 12 00	24 00 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 43 54.50	308 54 00	26 00 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 44 03.70	310 48 00	27 54 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 44 14.10	313 00 00	30 24 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 44 29.50	317 12 00	34 06 00	
JOKNN OB FIN		60 48 50 N	023 30 09	103	17 44 39.80	320 42 00	37 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
10 NOV 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 44 50.40	324 48 00	39 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 44 59.40	329 00 00	42 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 59 16.20	303 42 00	65 69 00	
ORFONESS ENG	52 06 00 N	001 36 00		19 19 31.00	349 42 00	13 18 00	
11 NOV 1958							
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 06 53.50	298 12 00	29 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 07 00.60	300 42 00	31 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 07 12.20	305 12 00	34 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 07 20.50	309 06 00	36 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 07 29.90	314 06 00	38 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 07 39.20	319 36 00	41 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 07 47.80	325 42 00	42 48 00	
BLFST-B.N.IR	54 33 00 N	354 06 00		18 53 40.00	010 57 00 *	53 00 00 *	
BLFST-B.N.IR	54 33 00 N	354 06 00		18 54 08.00	010 25 00 *	55 00 00 *	
12 NOV 1958							
STIAGO R CHI	33 33 42 S	289 18 48	573	06 33 17.00	016 36 36 *	69 17 00 *	
SANTIAGO CHI	33 33 44 S	289 18 43	580	06 33 17.00	016 36 36 *	67 17 00 *	
ADLAID C AUS	34 44 00 S	138 40 00		15 59 40.00	013 40 00 *	51 00 00 *	
SUTTON ENG	51 22 00 N	359 48 00		18 26 45.00	010 57 00 *	50 30 00 *	
NTN STEW ENG	54 57 00 N	355 30 00		18 26 53.00	000 00 00	19 00 00	
SUTTON ENG	51 22 00 N	359 48 00		18 27 42.00	009 33 00 *	52 00 00 *	
13 NOV 1958							
MIL RAD MASS	42 37 03 N	288 30 28	155	04 03 50.00	256 30 00	18 18 00	1709
MIL RAD MASS	42 37 03 N	288 30 28	155	04 04 49.00	241 18 00	18 54 00	1722
MIL RAD MASS	42 37 03 N	288 30 28	155	04 05 59.00	225 18 00	16 36 00	1855
MIL RAD MASS	42 37 03 N	288 30 28	155	04 07 07.00	212 42 00	13 12 00	2073
SANTIAGO CHI	33 33 44 S	289 18 43	580	06 04 52.00	015 05 51 *	68 32 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 59 16.20	303 42 00	32 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 59 24.30	304 12 00	35 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 59 33.60	304 42 00	38 00 00	
14 NOV 1958							
COLLEGE ALAS	64 51 18 N	212 10 12		04 56 39.00	022 48 00 *	67 18 00 *	
ORFONESS ENG	52 06 00 N	001 36 00		17 26 34.20	006 45 00	13 12 00	
ORFONESS ENG	52 06 00 N	001 36 00		17 27 58.10	029 06 00	12 00 00	
ORFONESS ENG	52 06 00 N	001 36 00		17 28 21.90	034 42 00	11 06 00	
15 NOV 1958							
MIL RAD MASS	42 37 03 N	288 30 28	155	02 58 44.00	293 18 00	19 36 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	03 01 47.00	232 54 00	31 24 00	1211
MIL RAD MASS	42 37 03 N	288 30 28	155	03 02 48.40	212 30 00	26 48 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	03 05 07.30	187 60 00	13 42 00	
COPNGN R DEN	55 42 13 N	012 27 09	10	18 28 12.00	014 35 00 *	48 00 00 *	
16 NOV 1958							
PT WASHNG NY	40 49 48 N	286 17 24		00 06 32.00	248 00 00	23 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 41 28.20	338 42 00	42 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 41 41.10	349 06 00	43 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 41 51.00	357 24 00	43 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 42 00.60	005 12 00	43 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 42 11.80	013 54 00	42 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 42 33.10	028 00 00	38 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 42 38.90	031 12 00	37 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 42 52.20	037 48 00	34 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 43 00.80	041 30 00	32 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 43 29.40	050 48 00	27 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 43 54.60	056 30 00	23 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 05.00	058 24 00	21 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 13.30	059 48 00	20 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 24.70	061 48 00	19 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 40.80	063 30 00	17 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 53.10	065 00 00	15 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 03.60	066 00 00	14 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 15.20	067 06 00	13 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 29.10	068 12 00	12 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 41.50	069 12 00	10 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 54.10	070 00 00	09 48 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
16 NOV 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 04.00	070 42 00	09 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 12.90	071 12 00	08 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 15 17.20	301 06 00	13 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 15 32.50	302 24 00	15 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 15 52.30	304 30 00	19 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 16 01.10	305 30 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 16 18.30	307 42 00	23 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 16 34.50	310 42 00	27 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 16 59.60	310 36 00	33 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 17 10.00	319 42 00	36 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 17 20.80	323 48 00	39 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 17 38.20	332 18 00	45 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 17 55.30	344 06 00	50 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 18 14.50	001 54 00	55 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 18 26.70	016 00 00	56 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 18 47.50	021 24 00	55 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 18 50.60	041 54 00	53 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 19 03.80	043 24 00	56 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 19 04.40	053 24 00	50 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 19 14.60	060 36 00	47 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 19 28.80	058 24 00	43 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 19 29.40	068 24 00	43 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 19 40.20	073 00 00	40 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 19 49.90	076 18 00	37 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 09.70	298 12 00	12 36 00	
BUSSUM NETH	52 16 52 N	005 09 18					
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 09.70	011 43 30 *	47 42 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 16.90	297 48 00	13 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 24.60	297 24 00	14 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 33.60	296 54 00	15 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 42.00	296 24 00	16 48 00	
HERSTMCKX ENG	50 52 01 N	000 20 16	32	17 51 50.00	001 00 00	14 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 50.20	295 54 00	18 06 00	
RUSSUM NETH	52 16 52 N	005 09 18					
ORFDNESS ENG	52 06 00 N	001 36 00					
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 52.20	010 50 30 *	53 42 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 56.20	000 18 00	16 27 36	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 51 59.00	295 12 00	19 30 00	
ORFDNESS ENG	52 06 00 N	001 36 00					
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 05.60	003 00 00	16 55 12	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 08.70	294 30 00	21 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 15.80	293 48 00	22 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 24.90	292 54 00	24 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 33.60	291 54 00	25 54 00	
STEENWK NETH	52 47 29 N	006 06 38					
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 37.60	009 45 48 *	58 06 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 43.20	290 36 00	28 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 50.60	289 36 00	29 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 52 58.50	288 18 00	31 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 53 06.40	286 54 00	33 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 53 15.30	284 48 00	36 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 53 23.60	282 48 00	39 00 00	
BUSSUM NETH	52 16 52 N	005 09 18					
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 53 29.50	007 27 24 *	54 51 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	21 21 16.00	044 48 00	42 24 00	
						14 30 00	

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17 NOV 1958

JOKNN OB FIN	60 48 50 N	023 30 09	103	15 36 35.90	304 30 00	19 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 36 48.10	306 24 00	21 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 36 56.80	308 12 00	23 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 37 09.30	310 42 00	25 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 37 18.30	312 48 00	27 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 37 28.90	315 48 00	30 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 37 38.10	318 48 00	32 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 37 48.00	322 30 00	35 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 37 58.70	327 12 00	37 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 38 08.70	332 18 00	40 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 38 16.20	336 48 00	42 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 38 25.90	343 36 00	45 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 38 37.30	352 24 00	47 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 38 50.00	003 36 00	48 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 38 58.90	011 48 00	49 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 39 07.00	019 36 00	49 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 39 14.50	026 12 00	48 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 39 24.20	034 36 00	47 24 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
17 NOV 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 39 33.10	041 30 00	45 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 39 42.20	047 30 00	43 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 39 51.30	052 54 00	41 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 40 01.80	058 12 00	39 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 40 13.90	063 12 00	36 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 40 45.70	072 54 00	29 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 41 05.30	076 54 00	25 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 41 18.00	079 06 00	23 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 41 28.30	080 36 00	22 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 41 40.60	082 12 00	20 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 41 49.60	083 12 00	19 00 00	
LDNDERYN, IR	55 00 00 N	352 39 00		17 10 46.00	000 00 00	30 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 12 15.40	299 18 00	17 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 12 24.50	299 06 00	19 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 12 31.90	298 54 00	20 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 12 43.30	298 30 00	22 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 12 53.70	298 12 00	24 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 13 05.30	297 42 00	27 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 13 17.40	297 06 00	30 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 13 27.60	296 24 00	33 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 13 37.10	295 42 00	36 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 13 47.10	294 48 00	39 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 13 56.50	293 42 00	43 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 14 05.80	292 18 00	47 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 14 14.20	290 42 00	51 00 00	
JOKNN OB FIN	60 46 50 N	023 30 09	103	17 14 23.30	288 24 00	55 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 14 32.00	285 18 00	60 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	17 14 41.20	280 18 00	65 36 00	

18 NOV 1958							
BELCHER CAN	57 56 12 N	265 49 33		01 00 30.00	019 02 00 *	72 10 00 *	
BELCHER CAN	57 56 12 N	265 49 33		01 00 45.00	018 30 00 *	71 25 00 *	
BELCHER CAN	57 56 12 N	265 49 33		01 01 15.00	017 32 00 *	68 55 00 *	
BELCHER CAN	57 56 12 N	265 49 33		01 01 30.00	017 09 00 *	67 05 00 *	
BELCHER CAN	57 56 12 N	265 49 33		01 01 45.00	016 50 00 *	65 20 00 *	
MIL RAD MASS	42 37 03 N	288 30 26	155	13 59 42.00	302 54 00	30 18 00	505
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 54 29.00	303 48 00	20 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 54 40.60	306 18 00	22 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 54 49.70	308 30 00	24 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 55 00.00	310 24 00	26 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 55 10.00	314 18 00	28 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 55 18.20	317 36 00	30 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 55 28.10	321 06 00	32 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 55 37.30	325 30 00	35 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 55 47.40	330 42 00	37 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 55 55.00	335 18 00	39 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 56 03.20	340 36 00	40 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 56 11.40	346 24 00	42 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 56 19.40	352 30 00	43 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 56 26.80	358 30 00	44 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 56 35.50	005 48 00	44 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 56 42.30	011 36 00	44 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 56 51.20	018 54 00	43 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 57 00.60	026 06 00	43 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 57 09.20	032 18 00	41 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 57 19.30	038 36 00	39 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 57 29.00	044 06 00	38 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 57 41.60	050 12 00	35 16 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 57 53.60	055 00 00	32 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 58 07.00	059 30 00	30 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 58 17.30	062 24 00	28 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 58 33.00	066 18 00	25 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 58 52.50	070 12 00	22 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 59 13.60	073 24 00	19 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 59 34.00	075 48 00	16 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 59 50.70	077 36 00	14 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 00 01.70	078 42 00	13 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 00 19.70	080 12 00	11 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 00 39.00	081 30 00	10 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 29 04.20	301 00 00	11 06 00	

STATION	LATITUDE	LONGITUDE FAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
18 NOV 1958 (CONT)							
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 29 17.20	301 12 00	12 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 29 33.30	301 30 00	14 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 29 48.80	301 54 00	17 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 30 02.00	302 18 00	19 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 30 18.30	302 48 00	22 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 30 33.90	303 30 00	25 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 30 51.00	304 18 00	29 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 31 02.70	305 00 00	33 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 31 14.00	305 54 00	37 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 31 29.60	307 36 00	42 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 31 41.10	309 12 00	48 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 31 53.20	310 48 00	54 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 32 02.90	314 36 00	59 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 32 13.40	319 48 00	65 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 32 26.30	331 54 00	73 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 33 15.50	097 12 00	66 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 33 34.20	105 00 00	56 24 00	
PRET B S AF	25 43 43 S	028 12 42	1311	17 49 41.50	022 21 00 *	01 24 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	18 05 02.00	346 39 00	10 23 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 05 31.40	352 14 00	12 41 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 05 43.60	354 45 00	13 34 00	
STEENHK NETH	52 47 29 N	006 06 38		18 05 49.20	012 20 00 *	57 12 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	18 05 54.40	357 14 00	14 25 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 06 07.60	000 23 00	15 23 00	
CHELMSFD ENG	51 43 00 N	000 30 00		18 06 20.00	009 00 00 *	60 00 00 *	
MEUDON FR	48 48 18 N	002 13 52	162	18 06 22.20	004 07 00	16 27 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	18 06 25.60	275 48 00	22 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	18 06 31.60	274 18 00	23 18 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 06 33.50	007 12 00	17 10 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	18 06 41.00	271 42 00	24 42 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 06 46.20	010 45 00	17 56 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	18 06 50.60	268 42 00	26 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	18 07 00.20	265 30 00	27 24 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 07 37.80	321 24 00	06 56 00	
MEUDON FR	48 48 18 N	002 13 52	162	18 07 53.20	321 26 00	09 27 00	
19 NOV 1958							
ORAY CAN	57 34 57 N	265 47 35		00 16 57.80	328 04 08	31 29 34	
BELCHER CAN	57 56 12 N	265 49 33		00 17 36.00	341 48 00	42 30 00	
BELCHER CAN	57 56 12 N	265 49 23		00 17 46.30	346 48 00	45 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 43 22.40	300 12 00	09 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 43 36.50	300 42 00	10 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 43 54.80	301 42 00	12 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 44 05.20	302 24 00	14 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 44 20.00	303 24 00	16 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 44 30.30	304 06 00	18 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 44 41.30	305 06 00	19 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 44 51.90	306 12 00	22 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 45 05.70	307 42 00	24 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 45 14.40	308 54 00	26 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 45 29.20	311 24 00	30 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 45 40.90	313 42 00	33 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 45 53.00	316 48 00	37 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 46 07.50	321 42 00	43 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 46 21.00	328 06 00	48 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 47 09.50	020 18 00	53 24 00	
JOKNN OB FIN	60 46 50 N	023 30 07	103	15 47 21.70	039 12 00	62 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 47 36.80	058 24 00	58 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 47 55.20	073 30 00	51 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 48 02.40	077 30 00	48 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 48 09.80	081 06 00	46 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 48 17.70	084 06 00	43 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 48 31.10	088 24 00	38 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 48 48.80	092 24 00	33 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 48 57.60	094 00 00	31 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 49 20.70	097 12 00	26 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 49 44.00	099 36 00	22 18 00	
DOONREAY SCOT	58 36 00 N	356 15 00		17 18 25.00	011 54 00 *	54 00 00 *	
THURSO SCOT	58 36 00 N	356 30 00		18 54 44.20	017 55 00 *	51 30 00 *	
CHELMSFO ENG	51 43 00 N	000 30 00		18 54 52.00	014 20 00 *	52 00 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
19 NOV 1958 (CONT)							
FARNHAM ENG	51 12 00 N	359 12 00		18 55 35.00	345 00 00	30 00 00	
ROYAL EDNRG	55 55 30 N	356 48 59	146	18 55 50.00	018 20 00 *	72 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 02 15.00	185 36 00	43 24 00	585
20 NOV 1958							
MIL RAD MASS	42 37 03 N	288 30 28	155	12 43 58.00	044 06 00	04 48 00	1368
MIL RAD MASS	42 37 03 N	288 30 28	155	14 14 06.00	325 36 00	06 54 00	1228
THURSO SCOT	58 36 00 N	356 30 00		18 04 38.70	014 20 00 *	47 30 00 *	
THURSO SCOT	58 36 00 N	356 30 00		18 05 44.70	015 35 00 *	70 30 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 30 14.00	036 24 00	16 18 00	1050
MIL RAD MASS	42 37 03 N	288 30 28	155	22 03 35.00	223 42 00	27 36 00	745
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 44 12.00	352 00 00	09 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 45 08.00	000 00 00	11 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 45 50.00	010 00 00	10 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 46 13.00	015 00 00	11 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 51 32.00	085 30 00	06 06 00	2300
21 NOV 1958							
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 18 45.00	328 00 00	07 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 18 45.00	326 00 00	07 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 19 04.00	326 00 00	07 30 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	00 20 13.00	329 06 00	16 00 00	1500
MIL RAD MASS	42 37 03 N	288 30 28	155	00 22 05.00	332 18 00	40 54 00	850
MIL RAD MASS	42 37 03 N	288 30 28	155	00 23 21.00	010 48 00	78 54 00	610
MIL RAD MASS	42 37 03 N	288 30 28	155	00 27 45.00	145 12 00	12 18 00	1850
SENDAI J	38 15 22 N	140 51 56	45	10 55 59.00	304 30 00	33 12 00	
SENDAI J	38 15 22 N	140 51 56	45	10 57 34.00	224 30 00	30 36 00	
SENDAI J	38 15 22 N	140 51 56	45	10 59 16.00	196 54 00	15 54 00	
NTN STEW ENG	54 57 00 N	355 30 00		17 13 32.00	000 00 00	27 00 00	
ARMG B N IRE	54 21 12 N	353 21 12		18 49 41.60	022 02 00 *	64 00 00 *	
ROYAL EDNRG	55 55 30 N	356 48 59	146	18 49 43.60	020 24 00 *	41 00 00 *	
LONDONRYN AIR	55 00 00 N	352 39 00		18 50 43.00	129 00 00	43 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	21 52 46.40	012 00 00	05 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	23 26 45.60	346 00 00	07 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	23 26 54.00	345 00 00	09 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	23 28 02.40	355 00 00	22 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	23 29 16.00	016 48 00	31 48 00	778
22 NOV 1958							
MANHATTAN B KAN	39 13 51 N	263 22 54	409	00 59 49.50	011 15 49 *	60 20 00 *	
MANHATTAN B KAN	39 13 51 N	263 22 54	409	01 00 17.00	010 46 31 *	62 26 00 *	
COLLEGE ALAS	64 51 18 N	212 10 12		04 23 20.00	019 44 00 *	10 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 37.00	309 18 00	24 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 44.80	310 30 00	26 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 44 52.60	312 06 00	27 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 03.20	314 24 00	30 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 11.80	316 36 00	33 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 21.30	319 30 00	36 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 29.20	322 30 00	39 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 38.20	326 42 00	42 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 47.10	331 42 00	45 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 45 56.50	339 42 00	49 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 06.10	346 06 00	52 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 14.40	355 00 00	55 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 26.60	010 06 00	57 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 33.50	019 36 00	57 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 41.00	029 48 00	57 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 46.70	067 24 00	54 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 47.80	038 42 00	56 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 46 56.40	048 30 00	54 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 47 04.70	056 36 00	52 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 47 13.10	063 30 00	49 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 47 23.60	070 18 00	45 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 47 34.20	075 42 00	42 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 47 47.20	080 48 00	37 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 47 54.30	085 42 00	33 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 48 19.60	089 00 00	29 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 48 37.40	091 54 00	23 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 48 52.30	093 54 00	22 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	14 49 13.20	096 06 00	19 12 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
22 NOV 1958 (CONT)							
JOKNN OR FIN	60 48 50 N	023 30 09	103	14 49 33.70	097 48 00	16 24 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	14 49 46.10	098 42 00	14 54 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	14 49 57.60	099 24 00	13 30 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	16 06 52.00	315 36 00	19 18 00	833
MIL RAD MASS	42 37 03 N	288 30 28	155	16 07 09.00	324 36 00	18 48 00	852
MIL RAD MASS	42 37 03 N	288 30 28	155	16 09 29.60	009 54 00	07 48 00	1470
MIL RAD MASS	42 37 03 N	288 30 28	155	16 11 31.50	022 36 00	00 30 00	2260
MEUDON FR	48 48 18 N	002 13 52	162	17 53 26.90	238 21 00	16 11 00	
NTN STEW ENG	54 57 00 N	355 30 00		17 53 40.00	000 00 00	53 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 53 41.60	240 32 00	18 14 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 53 53.90	242 37 00	20 03 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 54 04.30	244 27 00	21 45 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 54 14.10	246 36 00	23 25 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 54 28.70	250 06 00	26 00 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 54 42.60	254 04 00	28 39 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 54 56.50	258 49 00	31 27 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 55 11.00	004 46 00	34 25 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 55 23.40	010 45 00	36 53 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 55 37.60	018 49 00	39 28 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 55 54.50	029 45 00	41 47 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 56 07.40	039 03 00	42 49 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 56 20.10	048 41 00	42 55 00	
MEUDON FR	48 48 18 N	002 13 52	162	17 56 33.60	058 21 00	42 17 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 31 23.80	007 00 00	12 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 31 51.60	011 00 00	12 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 32 38.10	024 00 00	16 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 32 53.80	028 00 00	16 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 33 07.60	032 00 00	17 00 00	
PT WASHNG NY	40 49 48 N	286 17 24		22 33 29.00	037 18 00	14 36 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	23 26 56.10	344 30 00	14 18 00	972
MIL RAD MASS	42 37 03 N	288 30 28	155	23 29 15.50	017 24 00	32 48 00	420
MIL RAD MASS	42 37 03 N	288 30 28	155	23 32 50.90	109 24 00	20 00 00	740
23 NOV 1958							
AMES A IOWA	42 01 59 N	266 22 00	305	00 03 15.50	000 00 00	09 48 00	
DAYTON B O	39 50 14 N	275 44 03	249	00 04 03.50	012 08 30 *	56 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 04 04.05	009 00 00	13 06 00	
AMES IOWA	42 01 43 N	266 20 59		00 04 21.40	008 15 12 *	59 55 35 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	00 04 41.07	021 08 54	08 44 00	
AMES IOWA	42 01 43 N	266 20 59		00 04 46.40	007 23 31 *	58 46 53 *	
DAYTON B O	39 50 14 N	275 44 03	249	00 04 49.00	351 39 00	12 47 00	
AMES A IOWA	42 01 59 N	266 22 00	305	00 04 59.40	023 00 00	16 36 00	
AMES IOWA	42 01 43 N	266 20 59		00 05 17.30	006 26 07 *	55 21 57 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 05 22.00	318 00 00	13 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 05 47.40	317 00 00	16 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 05 57.00	318 00 00	17 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	00 05 58.50	009 30 30 *	70 36 00 *	
CINCINATI B O	39 09 06 N	275 32 15		00 06 07.00	007 24 00	19 36 00	
VANCOUVER BC	49 15 46 N	236 44 57	105	01 36 23.00	004 34 00 *	46 48 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	01 36 42.00	004 10 00 *	41 12 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	01 37 21.30	006 20 08 *	49 30 00 *	
COLLEGE ALAS	64 51 18 N	212 10 12		03 06 32.60	021 42 00 *	09 54 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	09 18 22.00	012 12 00 *	58 00 00 *	
SENOAI J	38 15 22 N	140 51 56	45	09 18 41.00	346 24 00	15 36 00	
MIZUKAIIO J	36 00 56 N	139 59 18	12	09 18 53.00	350 00 00	14 30 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	09 19 50.00	011 40 00 *	64 00 00 *	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 19 16.30	300 24 00	10 30 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 19 32.60	300 18 00	12 30 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 19 50.40	300 18 00	13 00 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 20 04.30	300 12 00	17 06 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 20 19.00	300 06 00	19 36 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 20 33.90	299 48 00	22 42 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 20 51.70	299 36 00	26 54 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 21 07.00	299 18 00	31 12 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 21 18.70	298 54 00	35 06 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 21 28.30	298 30 00	38 48 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 21 37.90	298 00 00	43 00 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 21 47.60	297 24 00	47 48 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 21 55.00	296 42 00	51 48 00	
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 22 03.20	295 36 00	56 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
23 NOV 1958 (CONT)							
JOKNN OR FIN	60 48 50 N	023 30 09	103	15 22 10.50	294 12 00	61 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 22 18.10	292 12 00	67 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 22 25.30	288 36 00	72 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 23 03.70	138 06 00	74 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 23 10.20	134 18 00	69 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 23 16.40	131 54 00	65 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 23 23.80	130 12 00	60 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 23 33.50	128 36 00	54 60 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 23 45.20	127 30 00	48 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 23 55.90	126 48 00	43 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 24 06.20	126 18 00	39 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 24 19.50	125 48 00	34 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 24 33.70	125 30 00	30 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 24 49.20	125 12 00	26 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 25 03.90	125 06 00	23 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 25 22.40	124 48 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 25 46.90	124 42 00	16 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 26 03.50	124 36 00	14 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 26 21.00	124 30 00	12 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 26 41.40	124 30 00	10 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 26 58.50	124 24 00	09 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 27 18.60	124 24 00	07 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 27 37.70	124 24 00	05 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 54 10.40	286 06 00	11 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 54 16.40	285 12 00	11 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 54 22.80	284 00 00	12 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 54 33.00	282 12 00	13 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 54 41.70	280 36 00	14 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 54 51.30	278 30 00	15 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 54 59.90	276 30 00	15 48 00	
GELEEN NETH	50 57 55 N	005 49 27					
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 05.70	010 59 18 *	58 30 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 11.40	273 48 00	17 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 20.10	271 36 00	17 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 29.10	269 00 00	18 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 35.10	266 18 00	19 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 47.20	263 24 00	20 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 55 57.10	260 06 00	21 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 09.20	258 48 00	22 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 23.40	250 12 00	23 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 35.60	245 06 00	24 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 56 52.00	238 12 00	25 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 57 09.00	230 48 00	25 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 57 27.20	223 06 00	24 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 57 45.80	215 24 00	24 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 57 56.50	211 18 00	23 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 58 10.10	206 30 00	22 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 58 32.50	199 06 00	20 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 58 49.90	194 18 00	18 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 59 02.50	191 06 00	17 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 59 18.50	187 36 00	16 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 59 38.30	183 42 00	14 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 59 58.30	180 18 00	12 42 00	
CINCINATI B O	39 09 06 N	275 32 15		23 06 42.00	028 00 00	11 18 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 06 59.90	032 16 00	12 50 00	
CAMBROG MASS	42 22 47 N	285 52 14	24	23 07 08.00	352 00 00	27 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 07 51.00	004 57 00 *	40 48 00 *	
CINCINATI B O	39 09 06 N	275 32 15		23 08 17.00	052 18 00	12 24 00	
PT WASHNG NY	40 49 48 N	286 17 24		23 08 19.00	029 30 00	31 18 00	
24 NOV 1958							
EDMONTON CAN	53 20 24 N	246 45 00		00 35 02.40	010 32 18 *	69 36 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	00 38 59.40	015 04 00 *	48 18 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	00 39 03.00	328 59 00	12 36 00	
ST LOUIS MO	38 33 44 N	269 34 24	196	00 39 37.12	013 11 05 *	67 13 33 *	
COLLEGE ALAS	64 51 18 N	212 10 12		02 05 33.00	180 00 00	60 24 00	
COLLEGE ALAS	64 51 18 N	212 10 12		03 39 26.50	225 00 00	25 42 00	
COLL C ALAS	64 51 36 N	212 12 12	137	03 39 54.00	020 00 00 *	02 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 17 04.00	003 15 00 *	34 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	09 52 10.00	015 46 00 *	52 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	15 40 51.00	329 06 00	14 42 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
24 NOV 1958 (CONT)							
MIL RAO MASS	42 37 03 N	288 30 28	155	15 42 36.00	002 36 00	08 00 00	1410
MIL RAO MASS	42 37 03 N	288 30 28	155	15 42 46.00	004 42 00	07 18 00	1458
MIL RAO MASS	42 37 03 N	288 30 28	155	15 43 55.00	014 48 00	02 54 00	2060
HARROGTE ENG	53 59 00 N	358 26 00		17 26 00.00	013 22 00 *	55 00 00 *	
ROYAL EONBG	55 55 30 N	356 48 59	146	17 27 22.60	023 31 00 *	60 30 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		17 27 56.00	063 12 00	66 48 00	
HARROGTE ENG	53 59 00 N	358 26 00		17 27 56.00	000 30 00 *	58 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		17 28 33.00	101 18 00	50 36 00	
HARROGTE ENG	53 59 00 N	358 26 00		17 28 33.00	000 48 00 *	33 30 00 *	
ATHENS GR	37 58 19 N	023 43 01	110	17 31 44.50	317 30 00	22 06 00	
BELCHER CAN	57 56 12 N	265 49 33		23 33 40.80	271 24 00	63 12 00	
BELCHER CAN	57 56 12 N	265 49 33		23 33 48.40	259 00 00	67 30 00	
BELCHER CAN	57 56 12 N	265 49 33		23 33 58.70	238 12 00	71 00 00	
BELCHER CAN	57 56 12 N	265 49 33		23 33 59.90	019 57 00 *	55 05 00 *	
BELCHER CAN	57 56 12 N	265 49 33		23 34 06.70	218 06 00	71 36 00	
OOAY CAN	57 34 57 N	265 47 35		23 34 10.00	020 40 00 *	25 00 00 *	
BELCHER CAN	57 56 12 N	265 49 33		23 34 15.60	196 00 00	69 42 00	
OONLAP ONTAR	43 51 46 N	280 34 40	244	23 37 11.00	016 01 12 *	68 42 00 *	
OONLAP ONTAR	43 51 46 N	280 34 40	244	23 37 36.00	017 30 00 *	70 00 00 *	
N CANTON B O	41 04 50 N	278 26 02		23 37 39.00	010 26 00 *	83 00 00 *	
OONLAP ONTAR	43 51 46 N	280 34 40	244	23 37 43.00	018 50 00 *	74 00 00 *	
OONLAP ONTAR	43 51 46 N	280 34 40	244	23 38 18.00	021 20 00 *	65 00 00 *	
OONLAP ONTAR	43 51 46 N	280 34 40	244	23 39 08.00	000 08 00 *	28 48 00 *	
WLMGTN P OEL	39 46 25 N	284 25 33	84	23 39 12.40	020 34 12 *	69 24 00 *	
N CANTON B O	41 04 50 N	278 26 02		23 39 30.00	002 05 00 *	38 00 00 *	
WASHGTON A OC	38 45 30 N	282 47 30	69	23 39 54.00	040 00 00	53 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	23 45 27.00	161 36 00	02 30 00	2485
25 NOV 1958							
NEWBROOK CAN	54 19 26 N	247 22 44	672	01 06 53.00	020 58 42 *	51 42 00 *	
ATHABASC CAN	54 26 24 N	246 51 00		01 07 02.00	021 46 54 *	44 18 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	01 07 19.60	004 58 00 *	48 07 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	01 08 27.60	003 48 00 *	32 00 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	01 10 21.00	007 38 30 *	67 42 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	01 11 10.00	004 56 00 *	56 06 00 *	
ALMGROO A NM	32 52 23 N	254 02 57	1335	01 11 23.00	005 34 42 *	59 12 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 11 30.00	045 00 00	15 00 00	
ALBUO A NM	35 05 03 N	253 21 24	1520	01 11 31.00	004 25 00 *	49 00 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	02 40 26.00	018 45 48 *	31 30 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	02 40 44.00	019 26 42 *	26 48 00 *	
SENDAI J	38 15 22 N	140 51 56	45	08 46 56.00	365 12 00	15 30 00	
SAPPORO J	43 04 49 N	141 22 13	20	08 47 27.00	015 25 00 *	72 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	08 48 10.00	357 42 00	27 00 00	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 48 24.00	021 12 00 *	63 00 00 *	
MATSUE J	35 27 42 N	133 03 18	1	08 48 33.00	004 27 00 *	42 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	08 48 43.00	023 41 00 *	60 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 49 17.00	023 33 00 *	29 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	08 49 31.00	004 47 00 *	45 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	08 49 31.00	045 42 00	16 30 00	
KANAZAWA J	36 32 45 N	136 41 01	80	08 49 32.00	004 20 00 *	48 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	08 49 34.00	037 24 00	44 12 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 49 44.00	004 44 00 *	47 00 00 *	
TAKAQA J	37 06 38 N	138 15 22	23	08 49 45.00	003 55 00 *	48 00 00 *	
SUWA J	36 00 13 N	138 07 43	762	08 50 08.00	003 48 00 *	43 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	08 50 30.00	004 19 00 *	49 00 00 *	
YAMAGATA J	38 15 16 N	140 20 59	151	08 50 33.00	008 30 00	30 30 00	
OTARU J	43 11 27 N	141 00 23	10	08 51 26.00	121 30 00	28 30 00	
MATSUE J	35 27 42 N	133 03 18	1	09 52 17.00	014 00 00 *	72 00 00 *	
MIL RAO MASS	42 37 03 N	288 30 28	155	16 09 47.00	338 00 00	04 54 00	1626
MIL RAO MASS	42 37 03 N	288 30 28	155	16 10 31.80	353 22 12	03 13 48	1810
MIL RAD MASS	42 37 03 N	288 30 28	155	16 11 35.40	005 03 24	00 45 36	2081
NIINSALO FIN	61 51 20 N	022 18 10	133	16 21 31.40	255 09 00	20 10 48	
NIINSALO FIN	61 51 20 N	022 18 10	133	16 21 59.40	243 31 48	18 15 36	
NIINSALO FIN	61 51 20 N	022 18 10	133	16 22 32.40	230 44 24	17 42 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	16 22 56.40	218 06 00	16 42 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	16 24 23.40	192 09 48	15 44 24	
NIINSALO FIN	61 51 20 N	022 18 10	133	16 25 30.40	179 25 17	12 06 36	
ROYAL EONBG	55 55 30 N	356 48 59	146	17 54 43.00	239 06 00	51 30 00	
ROYAL EONBG	55 55 30 N	356 48 59	146	17 54 53.00	019 30 00 *	28 00 00 *	
ONSK-A,N.IRE	52 23 13 N	353 39 43	86	17 55 11.00	246 48 00	80 48 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
25 NOV 1958 (CONT)							
ONSK-A, NIRE	52 23 13 N	353 39 43	86	17 55 11.00	020 55 00 *	49 00 00 *	
CCNAV FLA	28 29 32 N	279 39 24		19 06 44.00	344 39 00	23 49 12	
CCNAV FLA	28 29 32 N	279 39 24		19 07 34.00	351 20 24	36 42 36	
CCNAV FLA	28 29 32 N	279 39 24		19 08 01.00	352 54 00	39 39 36	
CCNAV FLA	28 29 32 N	279 39 24		19 08 06.00	352 58 48	38 14 24	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 28 38.90	334 00 00	10 18 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 29 04.40	340 42 00	12 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 32 08.30	026 42 00	42 24 00	
WLMGTN P OEL	39 46 25 N	284 25 33	84	22 32 35.70	004 10 48 *	45 54 00 *	
PT WASHNG NY	40 49 48 N	286 17 24		22 33 57.00	086 30 00	25 16 00	
ARLINGTON VA	38 50 48 N	282 53 35	59	22 34 09.00	049 84 00	17 55 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 35 38.00	122 48 00	15 48 00	
26 NOV 1958							
MANH P D KAN	39 11 18 N	263 24 00	347	00 02 25.40	009 02 51 *	47 18 36 *	
YANKTON SD	42 52 42 N	262 36 34	379	00 03 39.00	003 16 00 *	50 00 00 *	
MANH P D KAN	39 11 18 N	263 24 00	347	00 04 11.40	016 02 00	21 03 30	
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 05 26.00	266 00 00	17 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	00 06 38.00	245 00 00	17 30 00	
S PTRSRG FLA	27 46 40 N	277 16 00	15	00 07 03.00	000 00 00	24 42 00	
MANH P D KAN	39 11 18 N	263 24 00	347	00 07 06.80	104 39 00	42 53 00	
MAOLSON WIS	43 03 57 N	270 33 39	317	00 26 00.00	270 00 00	34 00 00	
PORTLAND ORE	45 29 19 N	237 22 27	46	01 32 11.30	011 01 00 *	64 00 00 *	
ATHABASC CAN	54 26 24 N	246 51 00		01 32 12.00	017 50 12 *	21 30 00 *	
EDMONTON CAN	53 20 24 N	246 45 00		01 32 14.20	017 12 06 *	24 12 00 *	
EDMONTON CAN	53 20 24 N	246 45 00		01 32 49.70	018 15 36 *	19 24 00 *	
SPOKN A WASH	47 37 37 N	242 38 59	706	01 33 15.00	015 45 00 *	70 00 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	01 33 24.00	001 25 06 *	61 54 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	01 33 32.00	001 23 30 *	56 12 00 *	
SPOKN A WASH	47 37 37 N	242 38 59	706	01 35 20.00	000 10 00 *	15 00 00 *	
EL PASO TEX	31 49 41 N	253 36 36		01 37 39.00	013 00 00	52 30 00	
ALBUQ A NM	35 05 03 N	253 21 24	1520	01 38 14.00	022 53 00 *	51 36 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	01 38 22.00	023 28 00 *	39 30 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	01 38 59.00	000 10 00 *	19 36 00 *	
N CANTON A O	40 55 54 N	278 32 40	366	02 25 42.35	003 25 48 *	49 30 06 *	
YAMAGATA J	38 15 16 N	140 20 59	151	09 12 36.00	313 00 00	23 30 00	
YAMAGATA J	38 15 16 N	140 20 59	151	09 12 37.00	310 30 00	37 30 00	
SENDAI J	38 15 22 N	140 51 56	45	09 13 06.00	310 18 00	25 12 00	
TAKAOA J	37 06 38 N	138 15 22	23	09 13 29.00	016 52 00 *	62 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	09 13 42.00	017 40 02 *	55 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 13 55.00	006 53 00 *	71 00 00 *	
SAPPORO J	43 04 49 N	141 22 13	20	09 14 01.00	019 53 00 *	28 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	09 14 06.00	294 24 00	40 54 00	
TAKADA J	37 06 38 N	138 15 22	23	09 14 14.00	019 22 00 *	60 00 00 *	
TAKADA J	37 06 38 N	138 15 22	23	09 14 31.00	020 23 00 *	55 00 00 *	
HIMEJI J	34 50 25 N	134 41 24	25	09 14 35.00	018 00 00	45 30 00	
YAMAGATA J	38 15 16 N	140 20 59	151	09 14 43.00	270 00 00	56 00 00	
SENDAI J	38 15 22 N	140 51 56	45	09 14 48.00	264 36 00	53 30 00	
OTARU J	43 11 27 N	141 00 23	10	09 14 55.00	270 00 00	34 30 00	
TAKAOA J	37 06 38 N	138 15 22	23	09 14 56.00	021 48 00 *	40 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	09 15 02.00	020 48 00 *	47 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	09 15 07.00	001 41 00 *	62 00 00 *	
MIZUKAIDO J	36 00 56 N	139 59 18	12	09 15 07.00	020 35 00 *	43 00 00 *	
MATSUE J	35 27 42 N	133 03 18	1	09 15 09.00	002 00 00 *	39 00 00 *	
SUWA J	36 00 13 N	138 07 43	762	09 15 10.00	020 27 00 *	42 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	09 15 11.00	023 46 00 *	55 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	09 15 18.00	003 51 00 *	46 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 15 19.00	003 43 00 *	48 00 00 *	
MIZUKAIDO J	36 00 56 N	139 59 18	12	09 15 27.00	270 00 00	72 00 00	
TAKAOA J	37 06 38 N	138 15 22	23	09 15 42.00	023 12 00 *	11 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	09 15 53.00	002 10 00 *	23 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	09 15 57.00	022 53 00 *	63 00 00 *	
HIROSHIMA J	34 22 08 N	132 28 10	3	09 15 57.00	002 45 00 *	26 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	09 16 32.00	003 12 00 *	18 00 00 *	
KYOTO U J	35 01 39 N	135 47 09	60	09 16 32.00	000 48 00 *	42 00 00 *	
YATSUSHIRO J	32 30 21 N	130 36 15	3	09 16 39.00	090 00 00	23 00 00	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 17 00.00	002 54 00 *	02 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 47 20.00	018 05 00 *	20 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	10 48 34.00	019 28 00 *	05 00 00 *	
FT BELVR VA	38 45 30 N	282 48 42	85	10 54 03.00	000 00 00	37 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
26 NOV 1958 (CONT)							
OAKLAND CAL	37 47 00 N	237 48 00	30	13 58 31.00	001 30 00 *	38 00 00 *	1843
MIL RAD MASS	42 37 03 N	288 30 28	155	15 02 11.00	016 36 00	02 30 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 13 23.20	241 18 00	41 22 48	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 13 41.20	216 12 00	33 23 24	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 13 43.20	174 57 00	32 58 48	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 14 27.20	164 07 12	25 13 48	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 15 15.20	155 00 36	17 07 12	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 16 34.30	147 36 00	10 30 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 16 35.20	152 27 00	14 31 48	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 16 41.90	147 06 00	09 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 16 48.10	146 42 00	09 18 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 16 55.20	151 17 24	13 21 36	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 16 55.30	146 18 00	08 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 17 03.20	145 54 00	08 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 17 12.50	145 24 00	07 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 17 21.00	145 00 00	06 30 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 17 21.20	148 33 00	09 38 24	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 17 29.30	144 36 00	05 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 17 39.20	144 18 00	05 12 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 17 49.30	146 45 36	07 51 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 17 46.70	144 00 00	04 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 17 55.20	143 42 00	04 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	15 18 01.60	143 24 00	03 42 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	15 18 10.20	145 33 36	06 38 24	
ROYAL EDNBRG	55 55 30 N	356 48 59	146	16 44 31.00	000 42 00	61 36 00	
DONREAY SCOT	58 36 00 N	356 15 00		16 44 34.50	021 40 00 *	46 00 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 39.00	251 54 00	11 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 43.60	249 12 00	11 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 45 57.60	246 42 00	11 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 06.40	244 12 00	12 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 16.40	241 24 00	12 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 26.30	238 42 00	12 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 34.60	236 00 00	12 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 42.70	233 42 00	12 00 00	
COPENH B DEN	55 42 13 N	012 27 09	10	16 46 43.20	019 40 00 *	11 15 00 *	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 46 52.90	230 54 00	11 48 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 05.70	228 48 00	11 36 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 11.00	226 00 00	11 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 19.60	223 42 00	11 12 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 28.90	221 24 00	10 54 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 38.50	219 00 00	10 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 47.70	215 48 00	10 06 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 47 57.70	214 30 00	09 42 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 48 07.40	212 24 00	09 18 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 48 15.30	210 42 00	09 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 48 25.50	208 36 00	08 24 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 48 33.70	201 00 00	08 00 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 48 42.40	205 06 00	07 30 00	
JOKNN OB FIN	60 48 50 N	023 30 09	103	16 48 51.60	203 36 00	07 06 00	
EDW AFP CAL	34 53 09 N	242 00 27	793	17 59 35.00	307 00 00	13 00 00	
LDNDERY N IR	55 00 00 N	352 39 00		18 18 05.00	237 00 00	31 00 00	
S FERNNOO SP	36 27 42 N	353 47 42	30	18 22 30.44	002 02 18 *	48 33 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	21 20 13.00	025 18 00	13 06 00	1420
MIL RAD MASS	42 37 03 N	288 30 28	155	21 21 41.00	053 06 00	14 17 00	1387
MIL RAD MASS	42 37 03 N	288 30 28	155	21 23 20.00	079 06 00	10 00 00	1645
N CANTON B O	41 04 50 N	278 26 02		22 52 03.00	011 07 00 *	65 07 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 52 10.10	319 36 00	13 00 00	1432
DAYTON B O	39 50 14 N	275 44 03	249	22 53 09.20	018 03 00	21 15 00	
ST COLL PA	40 44 01 N	282 06 33	393	22 53 52.00	000 00 00	35 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 53 53.00	308 24 00	33 12 00	811
DAYTON B O	39 50 14 N	275 44 03	249	22 53 56.00	036 54 00	25 15 00	
N CANTON B O	41 04 50 N	278 26 02		22 54 23.50	003 25 48 *	49 30 06 *	
DAYTON B O	39 50 14 N	275 44 03	249	22 55 03.20	067 52 00	25 00 00	
WASH WLSN DC	38 50 00 N	282 59 24		22 55 09.00	002 11 00 *	41 12 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 55 22.00	235 36 00	62 24 00	544
ST COLL PA	40 44 01 N	282 06 33	393	22 55 37.00	090 00 00	47 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	22 56 07.60	090 56 00	19 15 00	
ARLINGTON VA	38 50 48 N	282 53 35	59	22 56 09.50	090 00 00	45 30 00	
SSLVDR C BWI	24 03 59 N	285 27 49	15	22 56 47.00	014 36 36	11 48 00	
SSLVDR C BWI	24 03 59 N	285 27 49	15	22 56 50.00	015 26 06	12 12 36	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
26 NOV 1958 (CONT)							
SSLVOR C RWI	24 03 59 N	285 27 49	15	22 56 53.00	016 03 36	12 29 24	876
MIL RAD MASS	42 37 03 N	288 30 28	155	22 56 54.00	170 06 00	31 18 00	
SSLVOR C RWI	24 03 59 N	285 27 49	15	22 56 56.00	016 54 36	17 39 36	
SSLVOR C RWI	24 03 59 N	285 27 49	15	22 56 59.00	017 49 30	12 48 36	
DAYTON B O	39 50 14 N	275 44 03	249	22 57 00.00	102 55 00	13 48 00	1454
SSLVDR C RWI	24 03 59 N	285 27 49	15	22 57 02.00	018 44 24	14 02 42	
SSLVDR C RWI	24 03 59 N	285 27 49	15	22 57 05.00	026 25 12	14 33 36	
DAYTON B O	39 50 14 N	275 44 03	249	22 57 48.40	110 28 00	09 18 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 58 28.00	160 48 00	14 00 00	
27 NOV 1958							
FT WTH A TEX	32 42 27 N	262 38 14	182	00 21 11.00	003 20 00 *	51 00 00 *	
EDMONTON CAN	53 20 24 N	246 45 00		00 21 52.10	021 10 24 *	64 00 00 *	
ATHABASC CAN	54 26 24 N	246 51 00		00 21 55.50	021 49 42 *	57 30 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 23 52.60	318 00 00	14 36 00	
AMES IOWA	42 01 43 N	266 20 59		00 24 11.20	015 16 15 *	45 40 39 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 24 56.70	311 00 00	27 00 00	
AMES IOWA	42 01 43 N	266 20 59		00 25 07.00	016 34 49 *	47 13 07 *	
AMES IOWA	42 01 43 N	266 20 59		00 25 23.00	017 07 49 *	46 34 28 *	
AMES IOWA	42 01 43 N	266 20 59		00 26 00.00	018 41 02 *	41 12 00 *	
DENVR A COLO	39 44 52 N	255 03 24	1625	00 26 03.00	055 30 00	32 00 00	
AMES IOWA	42 01 43 N	266 20 59		00 26 07.00	019 02 38 *	38 58 54 *	
DAYTON B O	39 50 14 N	275 44 03	249	00 26 07.80	014 15 00 *	22 00 00 *	
AMES IOWA	42 01 43 N	266 20 59		00 26 11.00	019 11 32 *	37 55 40 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 26 18.30	273 00 00	54 12 00	
DAYTON B O	39 50 14 N	275 44 03	249	00 26 41.40	279 32 00	19 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	00 26 53.60	228 00 00	59 00 00	
MANHATTN KAN	39 09 45 N	263 31 09	311	00 27 07.10	023 30 54 *	42 00 49 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	00 27 07.10	023 30 54 *	42 49 12 *	
DAYTON B O	39 50 14 N	275 44 03	249	00 27 44.20	250 34 00	24 35 00	
AMES A IOWA	42 01 59 N	266 22 00	305	00 27 47.90	183 00 00	41 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	00 28 00.50	019 20 00 *	01 54 00 *	
FT WTH C TEX	32 42 15 N	262 37 30	204	00 28 11.00	003 20 00 *	51 00 00 *	
ST LOUIS MO	38 39 46 N	269 37 25	191	00 28 15.50	018 34 00 *	38 48 00 *	
ST LOUIS MO	38 37 59 N	269 48 09	152	00 28 20.00	018 43 40 *	37 33 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	00 28 28.60	236 00 00	24 49 00	
AMES A IOWA	42 01 59 N	266 22 00	305	00 28 42.80	170 00 00	25 00 00	
DAYTON B O	39 50 14 N	275 44 03	249	00 28 55.10	020 32 00 *	- 14 00 00 *	
ST LOUIS MO	38 39 46 N	269 32 35	191	00 29 01.00	022 24 04 *	- 13 24 38 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 29 10.30	165 00 00	18 00 00	
WASH WLSN DC	38 50 00 N	282 59 24		00 29 23.00	019 04 00 *	01 12 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	00 29 56.80	163 00 00	14 14 00	
WASH WLSN DC	38 50 00 N	282 59 24		00 30 39.00	020 08 00 *	18 24 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		00 32 19.00	022 20 00 *	42 00 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 49 54.50	001 14 54 *	- 69 06 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 50 11.70	003 16 58 *	- 77 32 30 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	00 50 35.20	007 41 00 *	- 40 06 00 *	
COLLEGE ALAS	64 51 18 N	212 10 12		01 50 52.30	180 00 00	36 36 00	
LAPLAT C ARG	34 54 26 S	302 05 30		00 51 06.00	009 06 17 *	- 70 28 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		00 52 02.10	010 01 10 *	- 60 16 18 *	
DOM AS BR CO	48 31 15 N	236 34 57	229	01 54 28.80	016 21 42 *	47 42 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	01 54 55.40	014 04 00 *	45 30 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	01 55 07.00	018 42 00 *	38 30 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	01 55 10.00	016 03 00 *	58 30 00 *	
DOM AS BR CO	48 31 15 N	236 34 57	229	01 55 18.82	016 58 48 *	42 48 00 *	
VANCOUVER BC	49 15 46 N	236 44 57	105	01 55 26.00	019 36 18 *	31 36 00 *	
DOM AS BR CO	48 31 15 N	236 34 57	229	01 55 36.80	020 01 18 *	35 36 00 *	
DOM AS BR CO	48 31 15 N	236 34 57	229	01 56 22.80	021 54 30 *	11 48 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	01 56 25.90	012 54 53 *	75 44 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	01 57 07.40	003 04 00 *	89 05 00 *	
WLNTCK A CAL	37 55 30 N	237 55 30	10	01 57 15.00	004 02 00 *	84 00 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	01 58 38.00	056 30 00	41 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	01 58 43.10	001 15 12 *	70 04 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	01 59 22.40	077 19 48	63 41 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	01 59 28.40	092 14 24	60 59 06	
EDW AF D CAL	34 56 43 N	242 04 58	785	01 59 34.40	104 21 36	57 25 12	
SACMTO E CAL	38 32 55 N	238 14 51	15	01 59 42.80	001 19 41 *	- 00 44 00 *	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 00 04.40	111 24 00	52 40 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 00 10.40	117 24 00	48 18 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 00 16.40	122 11 24	44 10 48	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 00 22.40	126 03 36	40 24 36	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
27 NOV 1958 (CONT)							
EDW AF O CAL	34 56 43 N	242 04 58	785	02 00 28.40	128 07 12	36 48 54	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 00 34.40	131 13 48	34 19 48	
EDW AF O CAL	34 56 43 N	242 04 58	785	02 10 01.10	132 13 12	33 59 24	
WLNTCK B CAL	37 57 52 N	237 56 14	9	02 28 30.80	009 35 00 *	69 45 00 *	
COLLEGE ALAS	64 51 18 N	212 10 17		03 24 26.70	209 00 00	13 12 00	
COLLEGE ALAS	64 51 18 N	212 10 12		03 24 50.00	020 19 50 *	- 12 00 00 *	
PORTLAND ORE	45 29 19 N	237 22 27	46	03 28 32.40	018 53 00 *	- 06 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	03 00 39.00	023 37 00 *	77 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 01 43.00	000 37 00 *	31 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 01 46.30	033 30 00	23 00 00	
MITAKA J	35 40 20 N	139 32 30	50	08 02 20.20	046 42 00	21 30 00	
MITAKA J	35 40 20 N	139 32 30	50	08 02 47.20	057 18 00	21 48 00	
SENDAI J	38 15 22 N	140 51 56	45	08 02 58.00	002 42 00 *	26 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 03 06.00	064 54 00	21 24 00	
MITAKA J	35 40 20 N	139 32 30	50	08 03 44.50	079 06 00	19 42 00	
MIZUKAIDO J	36 00 56 N	139 59 18	12	08 04 13.00	090 00 00	17 00 00	
MITAKA J	35 40 20 N	139 32 30	50	08 04 15.30	088 36 00	17 00 00	
HIROSHIMA J	34 22 08 N	132 28 10	3	09 35 30.00	020 37 00 *	32 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	09 35 42.00	247 36 00	19 24 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	09 36 06.00	019 43 00 *	07 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	09 37 11.00	021 40 00 *	- 16 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 37 12.00	023 50 00 *	- 01 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	09 37 27.00	214 54 00	15 18 00	
YATSUSHIRO J	32 30 21 N	130 36 15	3	09 37 35.00	147 00 00	37 00 00	
KAGOSHIMA J	31 31 34 N	130 21 47	13	09 38 00.00	000 43 00 *	- 18 00 00 *	
ADLAIO A AUS	34 55 14 S	138 36 14	55	11 27 24.50	140 00 00	19 00 00	
ADLAIO A AUS	34 55 14 S	138 36 14	55	11 28 37.00	007 40 00 *	- 62 00 00 *	
ADLAID A AUS	34 55 14 S	138 36 14	55	11 29 01.00	149 30 00	21 30 00	
ADLAIO A AUS	34 55 14 S	138 36 14	55	11 29 03.00	008 25 00 *	- 60 00 00 *	
ADLAID A AUS	34 55 14 S	138 36 14	55	11 29 30.50	009 03 00 *	- 57 00 00 *	
ADLAID A AUS	34 55 14 S	138 36 14	55	11 29 36.00	150 00 00	14 30 00	
ADLAIO A AUS	34 55 14 S	138 36 14	55	11 29 54.00	009 17 00 *	- 53 00 00 *	
DONREAY SCOT	58 36 00 N	356 15 00		17 23 45.00	019 25 00 *	21 00 00 *	
HARROGTE ENG	53 59 00 N	358 26 00		17 04 07.00	018 35 00 *	40 00 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	18 19 03.00	214 30 00	03 30 00	1550
CPTWN A S AF	33 56 00 S	018 28 37	7	19 01 02.00	040 00 00	38 00 00	
PT WASHNG NY	40 49 48 N	286 17 24		21 46 27.40	006 00 00	36 06 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 10 24.40	329 05 00	19 45 00	
TOWNSVW CAN	43 45 00 N	280 32 00		23 10 47.00	016 40 00 *	40 00 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 11 01.30	342 26 00	28 02 00	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	23 11 17.00	017 19 00 *	37 24 00 *	
TOWNSVW CAN	43 45 00 N	280 32 00		23 11 18.00	017 30 00 *	37 36 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 11 31.00	214 19 00 *	76 54 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	23 11 27.00	001 05 00	60 20 00	
TOWNSVW CAN	43 45 00 N	280 32 00		23 11 30.00	018 00 00 *	35 36 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 11 40.00	351 43 00	40 36 00	
WASH WLSN DC	38 50 00 N	282 59 24		23 11 48.00	016 36 00 *	46 00 00 *	
TOWNSVW CAN	43 45 00 N	280 32 00		23 11 58.00	018 18 00 *	24 36 00 *	
ARLINGTON VA	38 50 48 N	282 53 35	59	23 12 00.00	018 45 00 *	39 30 00 *	
MLWKEE A WIS	42 58 07 N	271 51 05	294	23 12 03.50	001 34 00 *	39 00 00 *	
BUFFALO NY	42 58 00 N	281 24 00	229	23 12 04.00	270 00 00	44 33 30	
N CANTON O O	40 57 46 N	278 40 01	360	23 12 08.60	019 20 30 *	56 36 00 *	
DUNLAP ONTAR	43 51 46 N	280 34 40	244	23 12 13.20	019 47 00 *	18 12 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 12 21.20	019 40 00	58 55 00	
N CANTON D O	40 57 46 N	278 40 01	360	23 12 22.00	020 12 00 *	51 20 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		23 12 37.00	017 20 00 *	44 24 00 *	
ST COLL PA	40 44 01 N	282 06 33	393	23 12 42.00	270 00 00	51 00 00	
BRISTOL TENN	36 35 03 N	277 50 31	527	23 12 45.00	000 00 00	41 00 00	
TOWNSVW CAN	43 45 00 N	280 32 00		23 13 06.00	021 38 00 *	- 05 00 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		23 13 09.00	018 40 00 *	39 12 00 *	
WLMGTN P DEL	39 46 25 N	284 25 23	84	23 13 20.60	019 18 30 *	19 12 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	74	23 13 32.00	241 00 00	24 00 00	
WASH WLSN DC	38 50 00 N	282 59 24		23 14 08.00	020 36 00 *	12 24 00 *	
U.S.NAV B,OC	38 55 12 N	282 56 08	93	23 14 10.01	021 24 37 *	04 05 39 *	
U.S.NAV B,DC	38 55 12 N	282 56 08	93	23 14 11.37	021 26 57 *	03 23 32 *	
U.S.NAV B,OC	38 55 12 N	282 56 08	93	23 14 12.72	021 29 14 *	01 42 08 *	
U.S.NAV B,DC	38 55 12 N	282 56 08	93	23 14 14.11	021 31 35 *	01 59 40 *	
WTFD P MASS	42 07 06 N	287 11 29	85	23 14 16.00	020 25 36 *	- 14 42 00 *	
WASH WLSN DC	38 50 00 N	282 59 24		23 14 28.00	022 55 00 *	- 21 18 00 *	
ST COLL PA	40 44 01 N	282 06 33	393	23 14 36.00	180 00 00	31 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
27 NOV 1958 (CONT)							
CAMBROG MASS	42 22 47 N	288 52 14	24	23 14 40.00	215 00 00	21 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	23 15 32.00	200 00 00	14 00 00	
WASH WLSN OC	38 50 00 N	282 59 24		23 16 18.00	000 10 00 *	- 34 00 00 *	
WASH WLSN OC	38 50 00 N	282 59 24		23 18 38.00	001 50 00 *	- 45 00 00 *	
CURACAO NWI	12 09 04 N	291 03 28	6	23 21 33.00	090 00 00	70 00 00	
28 NOV 1958							
NEWBROOK CAN	54 19 26 N	247 02 44	672	00 38 43.40	016 14 42 *	33 18 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	00 44 07.00	004 54 30 *	77 06 00 *	
L CRUC A NM	32 19 42 N	253 09 10	1186	00 45 25.00	002 52 00 *	41 15 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	01 03 36.00	022 25 00 *	18 12 00 *	
STIAGO R CHI	33 33 42 S	289 18 48	573	01 05 04.40	001 11 54 *	- 08 11 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		01 06 14.40	020 24 55 *	- 18 21 06 *	
SJUAN-GS ARG	31 30 37 S	291 22 46	650	01 06 47.00	008 29 00 *	- 74 42 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		01 07 42.70	018 51 37 *	- 52 29 42 *	
LAPLAT C ARG	34 54 26 S	302 05 30		01 08 21.60	017 19 48 *	- 62 48 48 *	
PORTLANO ORE	45 29 19 N	237 22 27	46	02 14 09.00	019 24 00 *	03 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 14 43.80	017 54 49 *	37 29 00 *	
SNYVAL A CAL	37 22 20 N	237 59 40	17	02 14 49.20	017 40 00 *	45 06 00 *	
MNLOPK P CAL	37 27 25 N	237 50 35	14	02 15 13.00	018 42 00 *	- 39 24 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	02 15 32.00	017 23 00 *	37 36 00 *	
DAVIS CAL	38 19 48 N	238 31 12		02 15 34.60	019 47 18 *	19 09 00 *	
SNYVAL A CAL	37 22 20 N	237 59 40	17	02 16 00.00	020 34 24 *	17 48 00 *	
SNYVAL A CAL	37 22 20 N	237 59 40	17	02 16 30.00	021 30 48 *	01 30 00 *	
EOW AF O CAL	34 56 43 N	242 04 58	785	02 16 31.00	266 25 48	38 08 42	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 16 41.50	021 43 58 *	- 11 55 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	02 16 59.00	019 57 00 *	11 18 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	02 17 05.00	019 53 00 *	10 48 00 *	
WHTIER A CAL	33 58 40 N	241 58 25	149	02 17 07.00	019 57 00 *	08 24 00 *	
SNYVAL A CAL	37 22 20 N	237 59 40	17	02 17 33.00	022 48 00 *	- 22 30 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	02 18 16.00	249 30 00	21 12 00	
TUCSON ARIZ	32 13 59 N	249 03 51	227	02 19 47.00	236 30 00	17 12 00	
WLNTCK B CAL	37 57 52 N	237 56 14	9	02 20 17.70	014 29 00 *	30 42 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 16 54.84	012 31 24 *	71 30 00 *	
YAMAGATA J	38 15 16 N	140 20 59	151	08 17 08.00	273 00 00	31 00 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 17 52.00	005 30 00 *	89 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 17 56.80	001 36 00	34 42 00	
SENDAI J	38 15 22 N	140 51 56	45	08 18 04.00	343 06 00	58 36 00	
MITAKA J	35 40 20 N	139 32 30	50	08 18 28.70	018 30 00	45 18 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 18 43.00	001 07 00 *	58 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 18 54.00	042 12 00	51 54 00	
TAKAOA J	37 06 38 N	138 15 22	23	08 18 54.00	001 17 00 *	37 00 00 *	
MIZUKAIDO J	36 00 56 N	139 59 16	12	08 18 56.00	045 00 00	58 30 00	
MUSASHINO J	35 42 58 N	139 34 35	75	08 18 59.20	045 00 00	52 00 00	
KANYAMACHI J	34 03 46 N	125 15 10	40	08 19 04.00	011 58 00 *	40 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 19 11.84	001 07 42 *	42 23 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 19 16.00	001 08 00 *	35 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 19 23.10	077 24 00	51 48 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 19 28.00	001 07 00 *	27 00 00 *	
MUSASHINO J	35 42 58 N	139 34 35	75	08 19 34.40	090 00 00	49 30 00	
SENDAI J	38 15 22 N	140 51 56	45	08 19 41.00	121 18 00	70 42 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	08 19 43.00	001 45 00 *	23 00 00 *	
YAMAGATA J	38 15 16 N	140 20 59	151	08 19 45.00	135 06 00	40 18 00	
NAGOYA J	35 08 57 N	136 59 11	50	08 19 48.00	090 00 00	34 30 00	
MITAKA J	35 40 20 N	139 32 30	50	08 19 48.00	100 06 00	44 54 00	
KASHIWABRA J	34 30 24 N	135 48 15	66	08 19 55.00	002 45 00 *	27 00 00 *	
SENDAI J	38 15 22 N	140 51 56	45	08 20 01.00	139 12 00	45 54 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 20 59.00	001 14 00 *	14 00 00 *	
ASAHIKAWA J	43 46 27 N	142 21 50	113	08 21 14.00	023 16 00 *	- 33 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 21 16.23	001 13 48 *	- 16 07 00 *	
SUWA J	36 00 13 N	138 07 43	762	08 21 17.00	001 32 00 *	- 16 00 00 *	
WELLINGTN NZ	41 10 00 S	174 39 00		08 40 00.00	019 06 00	28 12 00	
WELLINGTN NZ	41 10 00 S	174 39 00		08 41 30.00	070 00 00	43 12 00	
WELLINGTN NZ	41 10 00 S	174 39 00		08 43 00.00	115 54 00	20 24 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	09 50 36.00	017 56 00 *	04 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	09 51 45.00	018 54 00 *	13 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 52 09.00	019 14 00 *	02 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 52 11.00	019 16 00 *	01 00 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	09 52 13.00	019 25 00 *	03 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	09 52 14.00	240 00 00	18 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
28 NOV 1958 (CONT)							
MIYAZAKI J	31 55 23 N	131 25 24	8	09 52 15.00	019 27 00 *	00 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	09 52 19.00	019 30 00 *	- 09 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 52 40.00	019 49 00 *	- 10 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	09 52 41.00	002 08 00 *	34 36 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	09 52 50.00	020 02 00 *	- 12 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	09 53 03.50	002 05 00 *	23 09 00 *	
KAGOSHIMA J	31 31 34 N	130 31 47	13	09 54 19.00	021 50 00 *	- 38 00 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	13 11 03.30	279 16 00	14 51 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 12 17.10	252 05 00	29 36 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 13 22.40	220 40 00	19 56 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 13 49.90	209 10 00	17 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 15 17.70	185 24 00	09 37 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 21 22.20	253 14 00	06 57 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 22 46.30	235 08 00	08 21 00	
MIL RAO MASS	42 37 03 N	288 30 28	155	13 58 46.00	260 04 12	20 03 00	670
MIL RAD MASS	42 37 03 N	288 30 28	155	13 59 42.00	002 54 00	30 18 00	505
MIL RAD MASS	42 37 03 N	288 30 28	155	14 01 28.00	008 24 00	14 30 00	920
COPNGN B DEN	55 42 13 N	012 27 09	10	15 46 44.00	019 43 54 *	10 24 00 *	
OARNOCH SCOT	57 48 00 N	355 45 00		17 18 54.50	019 50 00 *	04 00 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 19 54.00	326 54 00	24 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 20 27.00	327 06 00	34 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 20 37.00	327 12 00	38 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 20 45.00	327 12 00	43 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 20 57.00	327 18 00	49 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 21 06.00	327 36 00	54 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 21 24.00	328 00 00	68 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 21 38.00	328 00 00	80 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 22 05.00	144 00 00	70 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 22 21.00	145 48 00	59 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 22 40.00	146 06 00	48 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 22 51.00	146 36 00	42 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 22 59.00	146 36 00	38 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 23 12.00	146 48 00	33 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 23 28.00	147 00 00	25 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 23 39.00	147 00 00	25 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 23 48.00	147 00 00	23 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 23 58.00	147 06 00	21 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 24 12.00	147 06 00	19 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 24 38.00	147 06 00	14 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 24 47.00	147 12 00	13 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 24 59.00	147 12 00	12 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 25 12.00	147 12 00	10 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 25 26.00	147 12 00	09 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 25 44.00	147 18 00	07 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 25 54.00	147 30 00	06 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 26 31.00	147 48 00	03 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 26 47.00	147 54 00	02 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 26 59.00	148 00 00	01 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 27 08.00	148 00 00	00 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 27 25.00	148 00 00	- 00 12 00	
UNION JOHNSRG	26 10 55 S	028 04 30	1806	17 40 09.50	001 27 00 *	37 12 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 40 27.60	001 50 00 *	29 30 00 *	
OLFSFTN S AF	25 57 33 S	028 14 53	1544	17 40 44.80	002 09 00 *	23 48 00 *	
UNION JOHNSRG	26 10 55 S	028 04 30	1806	17 40 45.30	002 08 00 *	24 12 00 *	
UNION JOHNSRG	26 10 55 S	028 04 30	1806	17 41 21.00	003 02 00 *	08 30 00 *	
PRET B S AF	25 43 43 S	028 12 42	1311	17 41 48.30	003 44 00 *	- 10 00 00 *	
UNION JOHNSRG	26 10 55 S	028 04 30	1806	17 42 03.00	003 45 00 *	- 17 00 00 *	
S FERNDDO SP	36 27 42 N	353 47 42	30	18 55 41.51	018 58 48 *	- 06 04 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	19 15 18.00	021 51 00 *	- 37 34 00 *	
CPTWN A S AF	33 56 00 S	018 28 37	7	19 15 28.00	022 00 00 *	- 47 00 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	19 16 00.00	018 09 00 *	- 62 42 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 20 55.40	054 48 00	06 42 00	1740
MIL RAD MASS	42 37 03 N	288 30 28	155	20 21 23.30	061 18 00	05 54 00	1810
MIL RAD MASS	42 37 03 N	288 30 28	155	20 22 33.20	074 24 00	03 42 00	2050
MIL RAO MASS	42 37 03 N	288 30 28	155	21 52 33.00	352 12 00	40 18 00	651
MIL RAD MASS	42 37 03 N	288 30 28	155	21 54 27.00	113 36 00	45 18 00	606
MIL RAD MASS	42 37 03 N	288 30 28	155	21 56 56.00	137 42 00	10 36 00	1578
PT RICO A WI	18 10 31 N	292 54 42	408	23 00 28.00	027 17 24	25 13 12	
MLWKEE A WI	42 58 07 N	271 51 05	294	23 21 54.80	312 12 00	23 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 22 27.50	339 00 00	24 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OP RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
28 NOV 1958 (CONT)							
AMES A IOWA	42 01 59 N	266 22 00	305	23 22 45.70	341 00 00	28 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	23 22 45.70	294 48 00	42 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 23 02.90	345 00 00	32 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 23 20.80	350 00 00	39 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 23 31.15	357 30 00	47 24 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	23 23 31.70	249 12 00	58 10 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 23 53.90	309 30 00	54 48 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	23 24 06.30	239 24 00	54 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 24 07.80	228 00 00	60 54 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 24 21.25	050 30 00	64 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 24 36.90	082 00 00	62 30 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	23 24 46.50	270 00 00	55 00 00	
KANCITY MO	39 02 02 N	265 25 08	259	23 24 46.00	090 00 00	67 00 00	
MLWKEE A WIS	42 58 07 N	271 51 05	294	23 24 46.00	180 18 00	38 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 24 56.70	107 00 00	53 00 00	
PEORIA ILL	40 45 19 N	270 24 09	238	23 25 05.00	270 00 00	59 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 25 25.90	120 00 00	41 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 25 36.60	125 00 00	35 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 25 54.80	129 00 00	29 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 26 09.00	131 00 00	25 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 26 26.40	133 00 00	22 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 27 06.70	137 00 00	15 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 27 47.90	139 30 00	10 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 28 01.60	139 00 00	08 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 28 38.60	140 00 00	05 30 00	

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DALLAS P TEX	32 51 10 N	263 14 29	172	00 34 24.00	019 15 25 *	- 05 30 00 *	
MANHTN A KAN	39 15 58 N	263 22 38	408	00 54 58.00	016 28 30 *	21 26 24 *	
ALMGDO-GS-NM	32 52 22 N	254 03 05	1339	00 55 32.00	014 51 12 *	56 00 00 *	
KANCITY MO	39 02 02 N	265 25 08	259	00 55 48.00	270 00 00	06 30 00	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	00 56 20.00	017 52 00 *	51 48 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	00 56 32.00	006 15 00 *	87 45 00 *	
WICHITA KAN	37 41 44 N	262 45 10	413	00 56 32.00	017 32 30 *	12 36 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	00 56 57.00	013 30 00	38 48 00	
DENVR A COLO	39 44 52 N	255 03 24	1625	00 57 14.00	027 30 00	33 30 00	
ALBUQ A NM	35 05 03 N	253 21 24	1520	00 57 15.50	019 55 00 *	40 25 00 *	
ALBUQ B NM	35 06 37 N	253 27 47	1667	00 57 15.50	019 55 00 *	40 15 00 *	
CHIN LAK CAL	35 39 25 N	242 20 13	701	00 57 22.40	020 00 00	27 36 00	
ALBUQ S NM	35 03 18 N	253 23 30	1616	00 57 27.00	020 00 00	66 00 00	
OK CY B OKLA	35 31 00 N	262 26 02		00 57 27.00	018 02 00 *	08 50 00 *	
ALBUQ B NM	35 06 37 N	253 27 47	1667	00 57 34.00	020 40 00 *	24 30 00 *	
EL PASO TEX	31 49 41 N	253 36 36		00 57 47.00	329 00 00	56 30 00	
ALMGDO-GS-NM	32 52 22 N	254 03 05	1339	00 57 58.00	020 42 00 *	38 00 00 *	
ALMGDO-GS-NM	32 52 22 N	254 03 05	1339	00 58 02.00	020 47 42 *	36 24 00 *	
ALBUQ S NM	35 03 18 N	253 23 30	1616	00 58 24.00	020 00 00	49 00 00	
OK CY A OKLA	35 33 50 N	262 29 20	360	00 58 25.00	018 58 00 *	- 06 00 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	00 58 47.00	022 40 00 *	- 13 12 00 *	
ALMGDO-GS-NM	32 52 22 N	254 03 05	1339	00 58 47.00	022 18 30 *	05 00 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	00 58 49.00	109 00 00	38 36 00	
WHSO-A-GS NM	32 21 28 N	253 27 47	1234	00 59 28.00	023 29 17 *	- 15 18 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 00 43.00	135 00 00	14 12 00	
ALBUQ B NM	35 06 37 N	253 27 47	1667	01 01 18.70	000 23 30 *	- 43 54 00 *	
STIAGO R CHI	33 33 42 S	289 18 48	573	01 16 57.00	020 56 00 *	- 04 02 00 *	
STIAGO R CHI	33 33 42 S	289 18 48	573	01 17 23.50	020 45 36 *	- 18 21 00 *	
SJUAN-GS ARG	31 30 37 S	291 22 48	650	01 17 52.00	019 26 00 *	- 39 00 00 *	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 26 45.00	283 18 00	16 18 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 27 00.00	278 48 00	17 42 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 27 15.00	273 42 00	19 00 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 27 30.00	268 00 00	20 12 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 27 38.40	018 18 31 *	03 25 00 *	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 27 45.00	261 54 00	21 06 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 28 00.00	255 18 00	21 54 00	
CHIN LAK CAL	35 39 25 N	242 20 13	701	02 28 03.90	270 00 00	12 30 00	
SNYVAL A CAL	37 22 20 N	237 59 40	17	02 28 10.20	018 40 36 *	00 00 00 *	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 28 11.90	018 54 39 *	- 05 55 00 *	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 28 15.00	248 30 00	22 06 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	02 28 17.00	269 43 48	14 04 12	
WLNTCK B CAL	37 57 52 N	237 56 14	9	02 28 19.30	018 59 30 *	- 05 45 00 *	
WLNTCK D CAL	37 57 54 N	238 00 10		02 28 19.70	018 55 40 *	- 05 54 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 NOV 1958 (CONT)							
EDW AFB CAL	34 53 09 N	242 00 27	793	02 28 30.00	241 54 00	27 06 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 28 45.00	235 06 00	21 42 00	
SACMTO E CAL	38 32 55 N	238 14 51	15	02 28 52.00	019 37 02 *	- 16 44 00 *	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 29 00.00	228 48 00	21 00 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 29 15.00	222 42 00	20 00 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 29 30.00	217 24 00	18 42 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 29 45.00	212 12 00	17 24 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 30 00.00	207 54 00	16 12 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 30 15.00	204 06 00	14 42 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 30 30.00	200 24 00	13 18 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 30 45.00	197 24 00	12 00 00	
SDIEGO P CAL	32 46 00 N	243 01 05	403	02 30 45.00	019 30 06 *	- 20 48 00 *	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 31 00.00	194 42 00	10 42 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 31 15.00	192 12 00	09 30 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 31 30.00	190 00 00	08 18 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 31 45.00	187 48 00	07 06 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 32 00.00	186 06 00	06 00 00	
EDW AFB CAL	34 53 09 N	242 00 27	793	02 32 15.00	184 24 00	04 48 00	
HONOLULU PAC	21 18 13 N	202 20 45	94	02 32 50.00	183 06 00	03 54 00	
MITAKA J	35 40 20 N	139 32 30	50	05 37 15.00	204 40 00	06 30 00	
SENDAI J	38 15 22 N	140 51 56	45	08 27 43.40	319 30 00	16 18 00	
MITAKA J	35 40 20 N	139 32 30	50	08 27 55.00	300 18 00	21 24 00	
YAMAGATA J	38 15 16 N	140 20 59	151	08 28 12.40	316 30 00	21 18 00	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 28 14.70	296 00 00	25 00 00	
MITAKA J	35 40 20 N	139 32 30	50	08 28 21.08	015 52 48 *	49 37 00 *	
SUWA J	36 00 13 N	138 07 43	762	08 28 37.50	312 30 00	27 06 00	
MITAKA J	35 40 20 N	139 32 30	50	08 29 05.00	017 56 00 *	52 00 00 *	
YAMAGATA J	38 15 16 N	140 20 59	151	08 29 07.20	305 36 00	36 00 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 29 11.00	270 00 00	44 00 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 29 21.00	000 53 00 *	37 00 00 *	
SENDAI J	38 15 27 N	140 51 56	45	08 29 31.00	018 43 00 *	40 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 29 33.00	254 18 00	38 48 00	
MITAKA J	35 40 20 N	139 32 30	50	08 29 33.20	018 35 00 *	38 42 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 29 43.40	253 24 00	50 12 00	
YOKKAICHI J	35 00 15 N	136 39 00	3	08 29 49.00	019 41 00 *	29 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 29 54.00	022 02 00 *	54 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	08 29 58.00	019 59 00 *	23 00 00 *	
KASHIWABARA J	34 30 24 N	135 48 15	66	08 30 03.00	119 00 00	34 00 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 30 10.00	021 15 00 *	64 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 30 16.00	001 12 00 *	37 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 30 17.64	020 22 24 *	14 43 00 *	
SENDAI J	38 15 22 N	140 51 56	45	08 30 21.00	021 21 00 *	09 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 30 21.00	216 18 00	35 54 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 30 21.60	232 00 00	57 12 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 30 25.00	225 00 00	51 00 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 30 26.00	000 08 00 *	29 00 00 *	
SUWA J	36 00 13 N	138 07 43	762	08 30 30.00	022 03 00 *	- 01 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 30 37.00	202 00 00	32 06 00	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 30 40.00	023 23 00 *	28 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	08 31 03.00	131 00 00	18 00 00	
SUWA J	36 00 13 N	138 07 43	762	08 31 34.00	023 07 00 *	- 22 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 31 57.00	022 37 00 *	- 28 00 00 *	
MITAKA J	35 40 20 N	139 32 30	50	08 32 04.80	022 55 00 *	- 29 48 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 32 05.69	022 51 18 *	- 30 28 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 32 18.00	023 11 00 *	- 34 00 00 *	
WELLINGTON NZ	41 10 00 S	174 39 00		08 51 00.00	309 48 00	60 06 00	
WELLINGTON NZ	41 17 00 S	174 46 00		08 51 30.00	317 30 00	48 00 00	
WELLINGTON NZ	41 17 00 S	174 46 00		08 53 30.00	152 00 00	30 48 00	
WELLINGTON NZ	41 10 00 S	174 39 00		08 54 00.00	150 00 00	22 06 00	
WELLINGTON NZ	41 17 00 S	174 46 00		08 55 30.00	149 06 00	12 54 00	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	10 03 02.20	019 34 12 *	42 23 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	10 03 54.70	021 29 00 *	08 06 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	10 04 01.60	021 40 00 *	02 00 00 *	
TAIPEI TAIWN	25 02 42 N	121 30 02	22	10 04 58.80	022 58 12 *	- 29 09 36 *	
AOLATO C AUS	34 44 00 S	138 40 00		10 21 09.00	305 22 00 *	- 21 00 00 *	
AOLATO A AUS	34 55 14 S	138 36 14	55	10 24 58.50	090 30 00	57 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 47 20.50	002 09 00	12 38 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 49 52.70	065 41 00	33 06 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 50 05.90	076 43 00	32 30 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 52 03.00	127 02 00	13 36 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 NOV 1958 (CONT)							
PERTH AUS	32 00 07 S	115 51 10	5	13 21 22.20	258 14 00	06 57 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 22 46.30	235 08 00	08 21 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 22 57.00	231 53 00	08 27 00	
PERTH AUS	32 00 07 S	115 51 10	5	13 23 58.10	213 16 00	07 17 00	
NIINSALO FIN	61 51 20 N	022 18 10	133	14 24 43.00	351 00 00	23 00 00	
ROYAL EONRG	55 55 30 N	356 48 59	146	17 27 02.50	017 30 00 *	02 30 00 *	
ROYAL EONRG	55 55 30 N	356 48 59	146	17 27 06.00	017 33 00 *	12 30 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 27 17.00	316 00 00	07 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 27 36.00	314 00 00	09 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 28 00.00	311 30 00	11 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 28 09.00	309 54 00	12 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 28 19.00	308 36 00	14 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 28 29.00	307 24 00	15 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 40.00	305 30 00	17 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 28 52.00	303 00 00	19 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 04.00	299 30 00	21 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 13.00	297 36 00	22 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 23.00	293 00 00	24 30 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 33.00	290 48 00	27 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 42.00	287 06 00	29 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 49.00	283 42 00	30 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 29 58.00	279 30 00	32 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 30 08.00	273 18 00	34 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 30 17.00	267 12 00	36 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 30 26.00	260 18 00	37 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 30 37.00	249 36 00	38 24 00	
MADRID SP	40 24 20 N	356 18 43	655	17 30 47.00	020 30 00 *	45 00 00 *	
MADRID SP	40 24 30 N	356 18 43	655	17 30 53.00	000 00 00	90 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 30 56.00	233 06 00	38 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 05.00	226 24 00	37 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 15.00	218 48 00	36 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 27.00	210 30 00	34 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 38.00	204 00 00	31 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 49.00	198 54 00	29 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 58.00	194 42 00	27 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 09.00	191 06 00	25 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 18.00	187 54 00	23 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 30.00	184 42 00	21 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 39.00	182 30 00	19 42 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 53.00	000 00 00	17 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 33 17.00	174 48 00	14 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 33 25.00	174 42 00	12 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 33 37.00	173 18 00	11 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 33 48.00	172 00 00	10 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 34 00.00	171 06 00	09 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 34 11.00	170 00 00	08 00 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 34 25.00	169 00 00	06 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 34 37.00	168 00 00	05 36 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 34 48.00	167 30 00	04 48 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 34 57.00	167 00 00	04 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 35 54.00	164 18 00	00 12 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 36 04.00	164 06 00	- 00 24 00	
PRET B S AF	25 43 43 S	028 12 42	1311	17 48 47.50	021 52 00 *	25 36 00 *	
UNION JOHNSG	26 10 55 S	028 04 30	1806	17 48 58.60	022 04 42 *	25 36 00 *	
PRET R S AF	25 43 43 S	028 12 42	1311	17 49 41.50	022 21 00 *	- 01 24 00 *	
JOHNG C S AF	26 07 00 S	028 00 00	1615	17 49 56.50	022 48 00 *	- 07 48 00 *	
JOHNG E S AF	26 08 00 S	028 01 00	1672	17 50 05.40	022 56 00 *	- 16 06 00 *	
JOHNG B S AF	26 11 42 S	025 08 25	1708	17 50 55.50	000 45 00 *	- 63 00 00 *	
BPET B S AF	25 43 43 S	028 12 42	1311	17 50 59.20	000 53 00 *	- 69 48 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 52 43.00	006 30 00 *	- 52 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 29 00.00	055 06 00	11 42 00	1360
MIL RAD MASS	42 37 03 N	288 30 28	155	20 29 56.00	071 12 00	09 42 00	1475
MIL RAD MASS	42 37 03 N	288 30 28	155	20 30 56.00	084 48 00	06 24 00	1735
MIL RAD MASS	42 37 03 N	288 30 28	155	21 59 29.00	313 54 00	20 24 00	975
MIL RAD MASS	42 37 03 N	288 30 28	155	22 00 32.00	299 30 00	38 36 00	627
N.LONDON CONN	41 22 40 N	287 53 38	61	22 01 00.00	245 44 27	04 23 42	
BRYN ATHN PA	40 06 00 N	284 56 00	85	22 01 55.00	090 00 00	63 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 02 15.00	185 36 00	43 24 00	585
CAMBROG MASS	42 22 47 N	288 52 14	24	22 02 27.00	283 00 00	45 00 00	
CAMBROG MASS	42 22 47 N	288 52 14	24	22 03 23.00	190 00 00	43 00 00	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
29 NOV 1958 (CONT)							
MIL RAO MASS	42 37 03 N	288 30 28	155	22 03 39.00	164 42 00	19 00 00	928
AMES A IOWA	42 01 59 N	266 22 00	305	23 29 39.40	314 30 00	17 06 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 30 14.70	310 00 00	23 42 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 30 52.10	299 30 00	34 48 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 31 20.10	284 30 00	46 00 00	
CHI FAXN ILL	41 59 00 N	272 21 00	218	23 31 43.00	270 00 00	25 00 00	
AMES IOWA	42 01 43 N	266 20 59		23 31 51.00	019 34 28 *	24 29 47 *	
AMES A IOWA	42 01 59 N	266 22 00	305	23 31 52.90	245 30 00	56 18 00	
PEORIA ILL	40 45 19 N	270 24 09	236	23 32 03.00	270 00 00	34 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 32 19.30	206 30 00	51 18 00	
KANCITY MO	39 02 02 N	265 25 05	259	23 32 31.00	021 28 00 *	39 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	23 32 43.60	021 29 19 *	- 05 49 40 *	
AMES A IOWA	42 01 59 N	266 22 00	305	23 32 45.00	186 00 00	41 30 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 33 14.60	173 00 00	30 36 00	
WASH WLSN OC	38 50 00 N	282 59 24		23 33 18.00	017 25 00 *	06 30 00 *	
DAYTON B O	39 50 14 N	275 44 03	249	23 33 23.40	242 57 00	21 28 00	
BRISTOL TENN	36 35 03 N	277 50 31	527	23 33 24.50	270 00 00	16 30 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 33 31.20	019 08 00 *	- 03 40 00 *	
TERRHAUT IND	39 31 38 N	272 36 10	155	23 33 35.30	225 00 00	31 00 00	
GRNSBRO A NC	36 04 38 N	250 07 57	265	23 33 51.00	017 48 00 *	04 00 00 *	
AMES A IOWA	42 01 59 N	266 22 00	305	23 33 57.70	166 00 00	20 18 00	
DAYTON B O	39 50 14 N	275 44 03	249	23 34 01.00	019 35 00 *	- 14 00 00 *	
MANH P O KAN	39 11 18 N	263 24 00	347	23 34 27.00	140 54 00	19 33 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 34 27.70	163 00 00	15 00 00	
BILOXI MISS	30 23 27 N	271 08 28	7	23 35 07.00	270 00 00	88 00 00	
WASH WLSN DC	38 50 00 N	282 59 24		23 35 18.00	019 10 00 *	- 21 00 00 *	
EGLN AFB FLA	30 33 00 N	273 22 41		23 35 23.50	020 37 21 *	12 04 57 *	
EGLN AFB FLA	30 33 00 N	273 22 41		23 35 51.20	002 12 84 *	- 06 36 44 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 53 12.00	022 24 26 *	04 10 12 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 53 53.40	022 57 10 *	- 29 42 00 *	
V DLORES ARG	31 56 32 S	294 53 30	598	23 53 56.00	003 50 00 *	- 24 00 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 54 27.40	000 17 50 *	- 65 10 18 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 55 47.50	006 41 46 *	- 66 39 48 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 56 57.20	009 28 00 *	- 56 38 30 *	
30 NOV 1958							
SACMTO F CAL	38 24 30 N	237 53 24	835	01 02 12.00	001 44 48 *	57 06 00 *	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	01 02 21.00	015 56 00 *	33 12 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 03 17.00	320 00 00	25 12 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 03 34.00	051 37 12	56 42 00	
EDW AF D CAL	34 56 43 N	242 04 58	785	01 03 36.00	054 57 36	56 45 24	
DENV R A COLO	39 44 52 N	255 03 24	1625	01 03 47.00	246 15 00	16 00 00	
DAVSAFB ARIZ	32 03 00 N	249 05 00	825	01 04 00.00	330 00 00	45 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 04 00.00	090 03 54	52 52 12	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 04 01.00	310 00 00	40 00 00	
ALBUQ S NM	35 03 18 N	253 23 30	1618	01 04 01.00	270 00 00	25 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 04 04.00	094 37 12	51 19 48	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 04 34.00	116 36 00	39 10 48	
ALBUQ-GS NM	35 06 22 N	253 23 14	1565	01 04 35.00	018 41 00 *	01 30 00 *	
SDIEGO P CAL	32 46 00 N	243 01 05	403	01 05 00.00	060 00 00	75 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 05 04.00	127 03 00	29 12 00	
ALBUQ A NM	35 05 03 N	253 21 24	1520	01 05 18.50	019 42 00 *	- 15 00 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	01 05 20.00	019 45 00 *	- 15 42 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	01 05 28.90	018 54 45 *	- 20 36 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	01 05 32.00	020 00 00 *	- 18 48 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 05 34.00	132 46 48	21 52 48	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 05 38.00	188 00 00	51 24 00	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 05 47.00	180 00 00	47 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 06 04.00	136 15 00	16 29 24	
L CRUC A NM	32 19 42 N	253 09 10	1186	01 06 20.00	208 00 00	24 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 06 34.00	138 41 24	12 22 48	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 07 04.00	140 26 24	08 56 24	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 07 26.00	164 30 00	17 12 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 07 34.00	141 45 36	06 17 24	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 08 04.00	142 49 12	03 55 39	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 08 34.00	143 40 48	01 53 24	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 09 01.00	144 50 24	00 32 24	
DAVSAFB ARIZ	32 03 00 N	249 05 00	825	01 10 00.00	150 00 00	30 00 00	
SACMTO F CAL	38 24 30 N	237 53 24	835	02 34 18.20	017 57 50 *	- 03 51 00 *	
SACMTO F CAL	38 24 30 N	237 53 24	835	02 35 30.50	018 53 06 *	- 18 51 00 *	
SACMTO F CAL	38 24 30 N	237 53 24	835	02 35 43.80	019 02 59 *	- 21 38 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGT ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
30 NOV 1958 (CONT)							
WLNCK B CAL	37 57 52 N	237 56 14	9	02 35 50.20	019 03 30 *	- 21 54 00 *	
PHILA PA	39 57 28 N	284 59 18	32	05 05 30.00	170 30 00	21 22 00	
KOCHI J	33 33 25 N	133 30 35	30	08 34 23.00	017 45 00 *	54 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	56	08 35 02.66	008 03 00 *	05 30 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	08 36 19.00	000 01 00 *	00 00 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 36 24.26	019 53 24 *	- 23 18 00 *	
TOKYO JAPAN	35 40 11 N	139 32 28	58	08 37 24.17	020 57 42 *	- 35 25 00 *	
WELLINGTON NZ	41 19 00 S	174 48 00		08 59 00.00	012 48 00 *	- 66 36 00 *	
MANILA PHIL	16 24 46 N	120 34 45		10 11 35.00	022 56 00 *	- 40 00 00 *	
ADLAIO A AUS	34 55 14 S	138 36 14	55	10 24 58.50	090 30 00	57 00 00	
ADLAIO A AUS	34 55 14 S	138 36 14	55	10 26 08.00	006 25 00 *	- 50 00 00 *	
WOOMER AUS	31 06 06 S	136 46 54	162	10 26 08.56	007 38 30 *	- 52 47 00 *	
ADLAIO C AUS	34 44 00 S	138 40 00		10 26 17.00	006 45 00 *	- 51 00 00 *	
ADLAIO A AUS	34 55 14 S	138 36 14	55	10 26 22.50	006 55 00 *	- 50 30 00 *	
PERTH AUS	32 00 07 S	115 51 10	5	11 51 35.20	335 44 00	13 12 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 53 39.10	344 26 00	56 43 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 54 36.50	141 22 00	57 45 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 55 09.30	147 37 00	34 42 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 57 26.10	151 11 00	06 27 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	12 43 57.70	044 06 00	04 48 00	1368
MIL RAD MASS	42 37 03 N	288 30 28	155	12 44 25.40	042 36 00	02 21 00	1562
MIL RAD MASS	42 37 03 N	288 30 28	155	14 12 34.20	294 48 00	05 18 00	2858
MIL RAD MASS	42 37 03 N	288 30 28	155	14 14 05.80	326 00 00	06 54 00	1228
MIL RAD MASS	42 37 03 N	288 30 28	155	14 15 33.20	352 30 00	04 12 00	1463
SHIP IND OCN	11 21 00 N	053 37 00		14 40 00.00	320 00 00	35 00 00	
SHIP IND OCN	11 21 00 N	053 37 00		14 43 00.00	194 00 00	41 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	16 03 24.30	290 18 00	17 48 00	
ATHENS GR	37 58 19 N	023 43 01	110	16 04 08.80	273 36 00	22 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	16 04 52.80	248 48 00	25 24 00	
ATHENS GR	37 58 19 N	023 43 01	110	16 05 27.80	229 00 00	24 54 00	
ATHENS GR	37 58 19 N	023 43 01	110	16 06 03.30	212 42 00	20 42 00	
ATHENS GR	37 58 19 N	023 43 01	110	16 06 39.30	200 42 00	16 00 00	
ATHENS GR	37 58 19 N	023 43 01	110	16 07 13.30	192 12 00	12 18 00	
NTN STEW ENG	54 57 00 N	355 30 00		17 31 22.50	219 00 00	13 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 28 42.00	005 00 00	10 12 00	1325
MIL RAD MASS	42 37 03 N	288 30 26	155	20 30 14.00	036 24 00	16 18 00	1050
MIL RAD MASS	42 37 03 N	288 30 28	155	20 33 37.00	095 30 00	08 18 00	1475
MIL RAD MASS	42 37 03 N	288 30 28	155	22 01 33.00	291 24 00	18 12 00	975
MIL RAD MASS	42 37 03 N	288 30 28	155	22 03 35.00	223 42 00	27 36 00	745
WLMGTN P DEL	39 46 25 N	284 25 33	84	22 04 01.90	021 48 42 *	- 02 12 00 *	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 04 09.00	208 00 00	22 00 00	
BRYN ATHN PA	40 08 00 N	284 56 00	85	22 04 17.00	180 00 00	43 00 00	
CAMBRDG MASS	42 22 47 N	288 52 14	24	22 05 16.00	188 00 00	14 00 00	
BRYN ATHN PA	40 08 00 N	284 56 00	85	22 05 26.00	022 55 00 *	- 30 00 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	22 06 37.00	175 24 00	05 30 00	1683
WOODBRD CONN	41 21 00 N	287 00 00		22 07 20.00	230 00 00	39 30 00	
ANTIG M9A	17 08 51 N	298 12 37	7	22 08 19.00	316 26 06	22 33 00	
ANTIG M9A	17 08 51 N	298 12 37	7	22 08 49.00	305 44 05	27 40 30	
ANTIG M9A	17 08 51 N	298 12 37	7	22 09 19.00	295 56 24	36 33 00	
ANTIG M9A	17 08 51 N	298 12 37	7	22 09 49.00	269 27 00	46 45 54	
ANTIG M9A	17 08 51 N	298 12 37	7	22 10 19.00	228 43 30	48 58 30	
ANTIG M9A	17 08 51 N	298 12 37	7	22 10 49.00	200 29 12	39 47 30	
ANTIG M9A	17 08 51 N	298 12 37	7	22 11 19.00	186 32 24	30 03 18	
ANTIG M9A	17 08 51 N	298 12 37	7	22 11 20.00	182 38 42	28 02 42	
ANTIG M9A	17 08 51 N	298 12 37	7	22 13 30.00	168 33 18	08 41 30	
ANTIG M9A	17 08 51 N	298 12 37	7	22 13 43.00	168 15 18	07 35 42	
AMES A IOWA	42 01 59 N	266 22 00	305	23 31 42.90	288 30 00	19 18 00	
TERRHAUT IND	39 31 38 N	272 36 10	155	23 33 17.00	270 00 00	14 00 00	
AMES A IOWA	42 01 59 N	266 22 00	305	23 33 28.70	230 30 00	27 42 00	
KANCITY MO	39 02 02 N	265 25 08	259	23 34 57.00	019 20 00 *	05 00 00 *	
OAYTON B O	39 50 14 N	275 44 03	249	23 35 01.60	236 06 00	10 30 00	
OAYTON B O	39 50 14 N	275 44 03	249	23 35 24.70	018 02 00 *	- 08 12 00 *	
MANH P O KAN	39 11 18 N	263 24 00	347	23 35 30.80	167 21 00	18 49 00	
MANH P O KAN	39 11 18 N	263 24 00	347	23 35 45.70	022 52 16 *	- 32 56 24 *	
BILOXI MISS	30 23 27 N	271 08 28	7	23 35 53.00	270 00 00	36 00 00	
OAYTON B O	39 50 14 N	275 44 03	249	23 36 26.10	018 58 00 *	- 22 30 00 *	
CHOSICA PERU	12 00 00 S	283 17 00		23 44 40.00	151 00 00	16 11 00	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 50 18.00	003 30 00 *	- 68 00 00 *	
HUANCAYO PER	12 01 27 S	284 40 28	3476	23 50 48.00	004 30 00 *	- 69 00 00 *	
ANTFGSTA CHI	23 39 11 S	289 34 03	10	23 51 00.40	001 47 00 *	- 56 30 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
30 NOV 1958 (CONT)							
SJUAN-GS ARG	31 30 37 S	291 22 46	650	23 52 40.00	001 07 00 *	18 00 00 *	
V DLORES ARG	31 56 32 S	294 53 30	598	23 53 35.00	023 10 00 *	- 30 00 00 *	
V DLORES ARG	31 56 32 S	294 53 30	598	23 54 30.00	003 50 00 *	- 75 00 00 *	
1 DEC 1958							
SACMTO F CAL	38 24 30 N	237 53 24	835	01 03 14.20	021 43 18 *	40 26 00 *	400
STFD RES CAL	37 24 11 N	237 49 29	152	01 03 47.50	121 00 00	65 00 00	
ALBUO A NM	35 05 03 N	253 21 24	1520	01 04 13.50	017 02 00 *	10 30 00 *	
ALBUO A NM	35 05 03 N	253 21 24	1520	01 04 22.00	017 07 00 *	09 00 00 *	
ALBUO-GS NM	35 05 22 N	253 23 14	1565	01 04 23.00	017 12 00 *	08 06 00 *	
ALBUO S NM	35 03 18 N	253 23 30	1618	01 04 27.00	270 00 00	12 00 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 04 32.00	016 54 06 *	14 36 00 *	
ALBUO-GS NM	35 06 22 N	253 23 14	1565	01 04 41.00	017 28 00 *	03 36 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 04 50.00	017 09 42 *	10 24 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 04 52.00	260 00 00	24 36 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 05 03.00	179 46 48	53 40 30	
EL PASO TEX	31 49 41 N	253 36 36		01 05 07.00	275 00 00	15 00 00	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 05 25.00	260 00 00	29 00 00	
L CRUC A NM	32 19 42 N	253 09 10	1186	01 05 26.00	017 38 00 *	04 03 00 *	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 05 33.00	168 12 00	35 30 00	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 05 34.00	017 50 30 *	- 00 48 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 05 53.00	018 05 30 *	- 06 00 00 *	
L CRUC A NM	32 19 42 N	253 09 10	1186	01 05 55.00	253 00 00	16 30 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 06 03.00	163 31 48	25 16 12	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 06 10.00	230 30 00	29 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 06 33.00	161 02 24	18 25 12	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 06 44.00	211 00 00	24 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 07 03.00	159 21 12	13 33 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 07 33.00	158 30 00	09 49 12	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 08 03.00	157 46 12	06 48 54	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 08 33.00	182 30 00	10 00 00	
EDW AF O CAL	34 56 43 N	242 04 58	785	01 08 33.00	157 13 12	04 18 18	
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 08 47.00	022 20 00 *	- 50 00 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 09 12.00	025 55 00 *	- 49 18 00 *	
ALMGDO-GS,NM	32 52 22 N	254 03 05	1339	01 09 29.00	021 03 18 *	- 51 00 00 *	
MANHTN B KAN	39 13 51 N	263 22 54	409	01 16 27.45	021 17 45	76 40 48	
WHTIER A CAL	33 58 40 N	241 58 25	149	02 38 02.00	018 45 00 *	- 25 00 00 *	
GIFU J	35 25 49 N	136 47 04	339	08 26 04.00	114 12 00	24 12 00	
ASAHIKAWA J	43 46 27 N	142 21 53	113	05 32 13.00	018 10 00 *	- 09 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 32 57.00	017 07 00 *	81 00 00 *	
KANYAMACHI J	34 03 46 N	135 15 10	40	08 33 20.00	017 33 00 *	13 00 00 *	
YOKKAICHI J	35 00 15 N	136 39 00	3	08 34 13.00	233 30 00	19 00 00	
TOKYO JAPAN	35 46 11 N	139 32 28	56	08 34 27.33	018 26 48 *	- 17 18 00 *	
MANAZURU 2 J	35 20 04 N	139 07 48	50	08 34 29.00	018 28 00 *	- 19 00 00 *	
MIYAZAKI J	31 55 23 N	131 25 24	8	05 34 33.00	020 54 00 *	- 05 00 00 *	
MITAKA J	35 40 20 N	139 31 30	50	08 34 39.10	233 24 00	12 30 00	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 34 47.00	018 57 00 *	- 24 00 00 *	
KOCHI J	33 33 25 N	133 30 35	30	08 35 02.00	020 45 00 *	- 28 00 00 *	
HGSHMTSYMA J	36 02 22 N	139 23 54	31	08 35 04.00	019 18 00 *	- 28 00 00 *	
KONKO J	34 32 31 N	133 37 40	4	08 35 19.00	192 00 00	18 30 00	
TOKYO JAPAN	35 40 11 N	139 32 28	56	08 35 22.19	019 19 54 *	- 30 49 00 *	
HIMEJI J	34 50 25 N	134 41 24	25	08 35 24.00	197 24 00	16 24 00	
MITAKA J	35 40 20 N	139 32 30	50	08 35 36.20	215 54 00	09 42 00	
MITAKA J	35 40 20 N	139 32 30	50	08 36 08.40	208 00 00	07 36 00	
KONKO J	34 32 31 N	133 37 40	4	08 36 27.00	179 30 00	09 30 00	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 21 43.00	021 40 00 *	09 00 00 *	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 22 05.00	323 00 00	42 00 00	
WOOMER AUS	31 06 05 S	136 46 54	162	10 22 21.46	022 45 00 *	- 82 07 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	10 22 33.70	177 46 12	33 08 24	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 22 46.00	022 20 00 *	- 47 00 00 *	
WOOMER AUS	31 06 07 S	136 47 07	162	10 22 52.41	171 43 48	26 05 24	
WOOMER AUS	31 06 07 S	136 47 07	162	10 23 10.41	168 02 24	20 51 36	
WOOMER AUS	31 06 07 S	136 47 07	162	10 23 18.19	166 48 36	19 00 00	
WOOMER AUS	31 06 07 S	136 47 07	162	10 23 25.35	165 42 00	17 13 17	
WOOMER AUS	31 06 07 S	136 47 07	162	10 23 46.23	163 33 36	13 28 12	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 24 09.80	162 00 00	22 00 00	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 24 19.00	008 45 00 *	- 67 00 00 *	
ADLAID A AUS	34 55 14 S	138 36 14	55	10 25 02.00	009 20 00 *	- 59 00 00 *	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 25 09.96	315 45 22	26 24 58	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 25 25.97	311 52 55	32 22 52	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RGY ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
1 DEC 1958 (CONT)							
SALSBURY AUS	34 43 58 S	138 38 47	32	10 25 41.61	305 47 10	40 01 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 26 16.95	262 45 00	61 49 12	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 26 29.75	228 06 40	62 58 44	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 27 09.08	175 22 12	39 09 00	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 27 19.50	170 59 24	33 40 23	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 27 29.91	167 54 00	29 09 04	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 27 59.07	165 48 07	25 46 44	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 28 05.32	161 49 37	18 29 49	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 28 12.89	161 00 29	16 51 50	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 28 43.39	158 35 24	11 35 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 28 51.90	156 05 24	10 25 01	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 28 59.95	157 39 47	09 23 24	
SALSBURY AUS	34 43 58 S	138 38 47	32	10 29 36.48	156 09 00	05 27 00	
JDR L BNK ENG	53 14 11 N	357 41 36		11 13 35.00	343 55 00	08 58 00	1250
PERTH AUS	32 00 07 S	115 51 10	5	11 49 06.30	316 42 00	18 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 50 35.40	298 54 00	27 48 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 51 10.70	276 00 00	39 54 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 53 01.20	176 30 00	21 24 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 54 00.50	165 18 00	09 48 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	12 35 16.00	211 06 00	01 54 00	1403
MIL RAD MASS	42 37 03 N	288 30 28	155	12 37 42.00	207 24 00	34 00 00	378
MIL RAD MASS	42 37 03 N	288 30 28	155	12 40 41.00	034 36 00	02 54 00	1040
MIL RAD MASS	42 37 03 N	288 30 28	155	12 41 46.00	034 24 00	02 42 00	1527
MIL RAD MASS	42 37 03 N	288 30 28	155	14 10 17.00	310 18 00	03 36 00	1435
MIL RAD MASS	42 37 03 N	288 30 28	155	14 11 27.00	332 18 00	03 30 00	1442
MIL RAD MASS	42 37 03 N	288 30 28	155	14 13 02.00	356 24 00	01 06 00	1712
COPNGN B DEN	55 42 12 N	012 27 06	10	15 57 28.00	019 10 00 *	- 19 00 00 *	
COPNGN B DEN	55 42 12 N	012 27 06	10	15 57 31.50	329 18 00	13 48 00	
FARNHAM ENG	51 12 00 N	359 12 00		17 26 36.00	241 30 00	07 06 00	
FARNHAM ENG	51 12 00 N	359 12 00		17 27 36.00	017 53 00 *	- 11 30 00 *	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 30 55.00	036 42 00	07 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 23.00	026 06 00	05 24 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 48.00	023 54 00	04 54 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 31 57.00	022 00 00	04 18 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 15.00	018 48 00	03 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 31.00	016 24 00	02 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 50.00	013 48 00	01 06 00	
PIC MIDI FR	42 56 12 N	000 08 32	2862	17 32 59.00	013 42 00	00 42 00	
EL GOLFA ALG	30 34 00 N	002 52 00		17 35 00.00	202 18 00	11 24 00	
EL GOLFA ALG	30 34 00 N	002 52 00		17 35 20.00	196 06 00	09 00 00	
EL GOLFA ALG	30 34 00 N	002 52 00		17 35 40.00	192 24 00	07 30 00	
EL GOLFA ALG	30 34 00 N	002 52 00		17 36 00.00	189 36 00	06 06 00	
EL GOLFA ALG	30 34 00 N	002 52 00		17 36 25.00	185 48 00	04 18 00	
EL GOLFA ALG	30 34 00 N	002 52 00		17 36 50.00	182 48 00	02 18 00	
HANOVR C GER	52 24 06 N	009 45 33		17 37 52.00	002 21 30 *	50 18 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 47 45.70	019 45 00 *	09 00 00 *	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 48 30.00	020 00 00	20 00 00	
BLOMFTN S AF	29 06 19 S	026 13 35	1634	17 50 13.00	016 38 00 *	- 68 30 00 *	
SPETSAI I GR	37 16 30 N	023 09 00		18 02 12.00	019 05 00 *	- 07 00 00 *	
WOODBRDG ENG	52 04 00 N	001 24 00		19 30 00.00	090 00 00	30 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	20 22 50.00	350 30 00	06 24 00	1457
MIL RAD MASS	42 37 03 N	288 30 28	155	20 25 25.00	042 18 00	20 17 00	830
MIL RAD MASS	42 37 03 N	288 30 28	155	20 28 29.00	109 48 00	06 36 00	1490
MIL RAD MASS	42 37 03 N	288 30 28	155	21 57 06.00	254 00 00	17 24 00	913
MIL RAD MASS	42 37 03 N	288 30 28	155	21 58 44.00	210 24 00	13 30 00	1076
MIL RAD MASS	42 37 03 N	289 30 28	155	22 00 36.00	186 48 00	04 12 00	1665
MIYAZAKI J	31 55 23 N	131 25 24	8	22 49 16.00	008 45 00 *	03 00 00 *	
CINCINATI A O	39 11 29 N	275 17 24	270	23 28 05.00	252 00 00	07 00 00	
ANTFGSTA CHI	23 39 11 S	289 34 03	10	23 45 12.50	022 12 00 *	- 46 06 00 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 48 57.70	018 05 17 *	- 43 33 54 *	
LAPLAT C ARG	34 54 26 S	302 05 30		23 49 30.60	016 55 19 *	- 56 12 30 *	
2 DEC 1958							
SACMTO E CAL	38 32 55 N	238 14 51	15	00 56 34.00	019 17 54 *	15 46 00 *	
STFD RES CAL	37 24 11 N	237 49 29	152	00 56 42.00	241 30 00	68 00 00	370
ALBUQ B NM	35 06 37 N	253 27 47	1667	00 57 21.00	016 46 00 *	06 00 00 *	
ALBUQ A NM	35 05 03 N	253 21 24	1520	00 58 11.50	017 14 00 *	- 00 24 00 *	
TUCSON ARIZ	32 13 59 N	249 03 51	227	00 59 24.00	237 00 00	17 30 00	
EL PASO TEX	31 49 41 N	253 36 36		01 00 01.00	220 00 00	08 30 00	
L ALAMOS NM	35 52 30 N	252 40 40	2256	01 00 06.00	019 00 00 *	- 32 10 00 *	

STATION	LATITUDE	LONGITUDE EAST	HEIGHT IN METERS	TIME GMT IN HR MIN SEC	AZIMUTH OR RG T ASCEN *	ELEVATION OR DECLINATION*	SLANT RANGE IN KM
2 DEC 1958 (CONT)							
TUCSON ARIZ	32 13 59 N	249 03 51	227	01 00 53.00	204 30 00	11 00 00	
L CRUC A NM	32 19 42 N	253 09 10	1186	01 06 25.00	018 47 00 *	- 29 00 00 *	
ELLSWRTH AFB	44 03 00 N	257 02 00	1000	02 07 00.00	090 00 00	45 00 00	
ELLSWRTH AFB	44 03 00 N	257 02 00	1000	02 08 00.00	090 00 00	40 00 00	
JDRL BNK ENG	53 14 11 N	357 41 36		08 02 00.00	127 03 00	20 20 00	600
ADLAID A AUS	34 55 14 S	138 36 14	55	10 12 23.00	243 00 00	40 00 00	
PERTH AUS	32 00 07 S	115 51 10	5	11 40 24.20	257 54 00	27 36 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	12 25 27.00	221 30 00	09 06 00	864
MIL RAD MASS	42 37 03 N	288 30 28	155	12 27 00.00	246 06 00	47 06 00	285
MIL RAD MASS	42 37 03 N	288 30 28	155	12 30 29.00	030 48 00	02 54 00	1419
MARCH AB CAL	33 54 00 N	242 45 00	467	13 25 00.00	182 30 00	42 30 00	
STFD RES CAL	37 24 11 N	237 49 29	152	15 23 33.00	300 00 00	84 00 00	193
MIL RAD MASS	42 37 03 N	288 30 28	155	18 39 39.00	040 00 00	- 00 30 00	1940
MIL RAD MASS	42 37 03 N	288 30 28	155	20 08 29.00	350 36 00	05 36 00	1350
MIL RAD MASS	42 37 03 N	288 30 28	155	20 10 58.00	047 00 00	18 42 00	1376
MIL RAD MASS	42 37 03 N	288 30 28	155	20 13 48.00	111 24 00	05 12 00	1419
MIL RAD MASS	42 37 03 N	288 30 28	155	21 41 01.00	271 42 00	10 48 00	1040
MIL RAD MASS	42 37 03 N	288 30 28	155	21 42 02.00	244 30 00	12 48 00	937
MIL RAD MASS	42 37 03 N	288 30 28	155	21 44 05.00	200 18 00	06 06 00	1318
TERRHAUT IND	39 31 38 N	272 36 10	155	22 57 44.50	270 00 00	22 00 00	
AIRCRAFT	30 30 00 N	268 50 00	9146	23 32 00.00	254 00 00	07 30 00	
3 DEC 1958							
ALBUQ S NM	35 03 18 N	253 23 30	1618	00 40 35.00	270 00 00	04 00 00	
CPTWN A S AF	33 56 00 S	110 28 37	7	02 53 02.60	010 00 00	15 00 00	
STIAGO R CHI	33 33 42 S	289 18 48	573	08 46 00.00	320 00 00	15 00 00	
MIL RAD MASS	42 37 03 N	288 30 28	155	12 00 02.00	213 00 00	02 00 00	1152
MIL RAD MASS	42 37 03 N	288 30 28	155	12 01 07.00	213 00 00	09 48 00	675
MIL RAD MASS	42 37 03 N	288 30 28	155	12 02 02.00	213 12 00	30 36 00	296
JDRL BNK ENG	53 14 11 N	357 41 36		12 30 40.00	010 00 00	04 30 00	1100
WHSD-A-GS NM	32 21 28 N	253 37 47	1234	13 28 00.00	123 00 00	17 00 00	
ALBUQ S NM	35 03 18 N	253 23 30	1618	13 28 00.00	090 00 00	10 30 00	
WICHITA KAN	37 41 44 N	262 45 19	413	13 28 53.00	360 00 00	75 00 00	
WICHITA KAN	37 41 44 N	262 45 19	413	13 28 53.00	011 25 33 *	50 06 00 *	
MIL RAD MASS	42 37 03 N	288 30 28	155	13 32 41.00	315 00 00	00 12 00	1398
MIL RAD MASS	42 37 03 N	288 30 28	155	13 33 21.00	327 18 00	00 18 00	1395
MIL RAD MASS	42 37 03 N	288 30 28	155	13 33 33.00	331 12 00	- 00 06 00	1410
MIL RAD MASS	42 37 03 N	288 30 28	155	13 33 47.00	335 48 00	- 00 12 00	1432
STFD RES CAL	37 26 00 N	237 50 00	793	14 55 56.00	118 00 00	40 00 00	220

TABULATION OF AIR FORCE SIGHTINGS IN CHRONOLOGICAL
SEQUENCE WITHIN A SINGLE PASS
16 May 1958 to 20 May 1958

PATRICK AFB OPT-TR STA. 1.5

LAT. 28 29 33 N

LONG. 279 25 27 E

HT 0015 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	04	38.00	026 36 00	39 58 12
01	04	39.00	026 52 48	40 02 24
01	04	40.00	027 07 48	40 09 00
01	04	41.00	027 41 24	40 17 24
01	04	42.00	028 08 24	40 30 36
01	04	43.00	028 30 00	40 36 00
01	04	44.00	028 49 48	40 44 24
01	04	45.00	029 09 36	40 59 24
01	04	46.00	029 36 36	41 09 00
01	04	47.00	029 57 36	41 18 36
01	04	48.00	030 21 00	41 27 36
01	04	49.00	030 45 36	41 36 36
01	04	50.00	031 08 24	41 49 48
01	04	51.00	031 34 12	41 55 24
01	04	52.00	032 03 00	41 59 24
01	04	53.00	032 25 12	42 08 24
01	04	54.00	032 43 12	42 19 12
01	04	55.00	033 16 12	42 25 48
01	04	56.00	033 38 24	42 37 12
01	04	57.00	034 07 48	42 41 24
01	04	58.00	034 33 00	42 54 00
01	04	59.00	034 55 48	43 03 00
01	05	00.00	035 22 48	43 12 36
01	05	01.00	035 54 00	43 15 36
01	05	02.00	036 13 12	43 24 36
01	05	03.00	036 45 36	43 31 12
01	05	04.00	037 06 00	43 45 00
01	05	05.00	037 36 36	43 52 48
01	05	06.00	038 03 36	43 58 12
01	05	07.00	038 36 00	44 03 36
01	05	08.00	039 01 12	44 13 12
01	05	09.00	039 30 00	44 21 36
01	05	10.00	039 54 00	44 27 36
01	05	11.00	040 26 24	44 34 12
01	05	12.00	040 49 12	44 43 12
01	05	13.00	041 19 12	44 54 00
01	05	14.00	041 42 36	44 53 24
01	05	15.00	042 18 36	45 02 24
01	05	16.00	042 55 48	45 16 12
01	05	17.00	043 09 36	45 28 12
01	05	18.00	043 43 12	45 25 48
01	05	19.00	044 09 00	45 25 48
01	05	20.00	044 40 12	45 35 24
01	05	21.00	045 12 36	45 40 48
01	05	22.00	045 45 36	45 43 12
01	05	23.00	046 07 12	45 49 48
01	05	24.00	046 32 24	46 00 36
01	05	25.00	047 12 00	46 02 24
01	05	26.00	048 21 00	46 09 00
01	05	27.00	048 54 00	46 07 12
01	05	28.00	048 51 36	46 11 24
01	05	29.00	049 07 12	46 20 24
01	05	30.00	049 32 24	46 27 36
01	05	31.00	050 14 24	46 30 00
01	05	32.00	050 37 48	46 37 12
01	05	33.00	051 03 36	46 46 12
01	05	34.00	051 56 24	46 49 48
01	05	35.00	052 22 48	46 44 24
01	05	36.00	052 49 48	46 52 48
01	05	37.00	053 15 00	46 54 36
01	05	38.00	053 55 12	46 58 48
01	05	39.00	054 20 24	47 03 00
01	05	40.00	054 49 48	47 08 24
01	05	41.00	055 30 36	47 11 24
01	05	42.00	055 58 12	47 12 00
01	05	43.00	056 30 36	47 16 12
01	05	44.00	057 00 36	47 17 24
01	05	45.00	057 32 24	47 20 24
01	05	46.00	057 55 48	47 21 36
01	05	47.00	058 30 00	47 24 36

HR	MIN	SEC	AZIMUTH	ELEVATION
01	05	48.00	059 00 36	47 25 12
01	05	49.00	059 27 00	47 27 00
01	05	50.00	060 04 12	47 30 00
01	05	51.00	060 36 36	47 30 36
01	05	52.00	061 06 36	47 32 24
01	05	53.00	061 40 48	47 34 48
01	05	54.00	062 15 36	47 34 48
01	05	55.00	062 42 00	47 34 12
01	05	56.00	063 31 48	47 33 00
01	05	57.00	063 59 24	47 40 12
01	05	58.00	064 30 36	47 40 48
01	05	59.00	065 00 00	47 40 48
01	06	00.00	065 22 12	47 41 24
01	06	01.00	065 47 24	47 41 24
01	06	02.00	066 20 24	47 41 24
01	06	03.00	066 59 24	47 41 24
01	06	04.00	067 29 24	47 41 24
01	06	05.00	067 58 48	47 41 24
01	06	06.00	068 27 36	47 41 24
01	06	07.00	068 52 12	47 41 24
01	06	08.00	069 23 24	47 40 48
01	06	09.00	069 56 24	47 40 48
01	06	10.00	070 30 36	47 39 36
01	06	11.00	070 52 48	47 39 36
01	06	12.00	071 24 00	47 39 36
01	06	13.00	071 57 00	47 39 36
01	06	14.00	072 25 48	47 39 36
01	06	15.00	072 58 12	47 38 24
01	06	16.00	073 21 36	47 35 24
01	06	17.00	073 55 48	47 31 12
01	06	18.00	074 34 12	47 31 12
01	06	19.00	075 00 00	47 24 36
01	06	20.00	075 24 00	47 25 12
01	06	21.00	076 02 24	47 25 12
01	06	22.00	076 27 36	47 20 24
01	06	23.00	076 58 12	47 15 00
01	06	24.00	077 24 36	47 10 48
01	06	25.00	077 57 36	47 08 24
01	06	26.00	078 33 00	47 00 36
01	06	27.00	078 50 24	47 00 00
01	06	28.00	079 19 48	46 58 48
01	06	29.00	079 47 24	46 53 24
01	06	30.00	080 09 00	46 51 00
01	06	31.00	080 41 24	46 46 48
01	06	32.00	081 12 36	46 41 24
01	06	33.00	081 37 12	46 37 48
01	06	34.00	082 15 36	46 29 24
01	06	35.00	082 33 00	46 25 12
01	06	36.00	083 00 36	47 22 48
01	06	37.00	083 25 12	46 18 36
01	06	38.00	083 46 48	46 12 36
01	06	39.00	084 19 48	46 07 48
01	06	40.00	084 51 00	46 03 00
01	06	41.00	085 15 36	45 58 12
01	06	42.00	085 42 36	45 51 00
01	06	43.00	086 06 00	45 48 00
01	06	44.00	086 33 36	45 40 12
01	06	45.00	087 00 36	45 35 24
01	06	46.00	087 28 48	45 30 36
01	06	47.00	087 51 00	45 26 24
01	06	48.00	088 17 24	45 21 00
01	06	49.00	088 40 12	45 17 24
01	06	50.00	088 57 00	45 12 36
01	06	51.00	089 27 00	45 04 12
01	06	52.00	089 53 24	45 00 00
01	06	53.00	090 15 36	44 51 00
01	06	54.00	090 39 00	44 44 24
01	06	55.00	091 09 36	44 39 36
01	06	56.00	091 20 24	44 34 12
01	06	57.00	091 47 24	44 26 24

PATRICK AFB O-T,TR STA. 1.5 LAT. 28 29 33 N LONG. 279 25 27 E HT 0015 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	06	58.00	092 12 00	44 22 12
01	06	59.00	092 33 36	44 17 24
01	07	00.00	092 55 12	44 12 00
01	07	01.00	093 17 24	44 04 48
01	07	02.00	094 07 48	43 56 24
01	07	03.00	093 57 36	43 48 00
01	07	04.00	094 23 24	43 45 36
01	07	05.00	094 42 00	43 36 00
01	07	06.00	095 10 12	43 24 36
01	07	07.00	095 29 24	43 22 48
01	07	08.00	095 52 48	43 09 36
01	07	09.00	096 27 36	42 29 24
01	07	10.00	096 27 00	42 55 48
01	07	11.00	096 43 12	42 49 48
01	07	12.00	097 09 00	42 45 36
01	07	13.00	097 30 00	42 35 24
01	07	14.00	097 50 24	42 27 36
01	07	15.00	098 09 00	42 24 00
01	07	16.00	098 31 12	42 17 24
01	07	17.00	098 43 48	42 00 36
01	07	18.00	099 07 48	42 02 24
01	07	19.00	099 30 00	41 57 36
01	07	20.00	099 49 12	41 54 00
01	07	21.00	100 09 36	41 48 00
01	07	22.00	100 20 24	41 41 24
01	07	23.00	100 42 36	41 34 48
01	07	24.00	101 00 36	41 24 00
01	07	25.00	101 10 48	41 17 24
01	07	26.00	101 30 36	41 10 48
01	07	27.00	101 48 00	41 05 24
01	07	28.00	102 01 12	40 56 24
01	07	29.00	102 21 00	40 48 36
01	07	30.00	102 39 36	40 42 36
01	07	31.00	103 01 48	40 33 00
01	07	32.00	103 16 12	40 25 48
01	07	33.00	103 33 00	40 19 48
01	07	34.00	103 51 36	40 04 48
01	07	35.00	104 12 00	39 59 24
01	07	36.00	104 21 36	39 54 00
01	07	37.00	104 45 00	39 51 00
01	07	38.00	104 59 24	39 42 36
01	07	39.00	105 20 24	39 34 12
01	07	40.00	105 31 12	39 22 12
01	07	41.00	105 44 24	39 16 12
01	07	42.00	106 02 24	39 09 00
01	07	43.00	106 16 12	39 03 00
01	07	44.00	106 36 00	38 55 48
01	07	45.00	106 48 36	38 49 48
01	07	46.00	107 04 48	38 42 00
01	07	47.00	107 20 24	38 36 00
01	07	48.00	107 52 12	38 27 36
01	07	49.00	107 49 12	38 21 00
01	07	50.00	108 00 00	38 07 12
01	07	51.00	108 24 36	38 10 12
01	07	52.00	108 37 48	37 57 00
01	07	53.00	108 52 48	37 46 12
01	07	54.00	109 06 00	37 39 36
01	07	55.00	109 13 12	37 31 12
01	07	56.00	109 30 00	37 24 00
01	07	57.00	109 50 24	37 16 12
01	07	58.00	110 01 12	37 16 12
01	07	59.00	110 24 36	37 06 36
01	08	00.00	110 25 12	36 50 24
01	08	01.00	110 42 00	36 46 48
01	08	02.00	110 54 00	36 40 12
01	08	03.00	111 07 12	36 36 00
01	08	04.00	111 22 12	36 31 12
01	08	05.00	111 28 48	36 15 36
01	08	06.00	111 44 24	36 07 48
01	08	07.00	111 56 24	36 04 48

HR	MIN	SEC	AZIMUTH	ELEVATION
01	08	08.00	112 10 12	36 00 36
01	08	09.00	112 19 12	35 53 24
01	08	10.00	112 31 12	35 45 00
01	08	11.00	112 47 24	35 37 48
01	08	12.00	112 51 00	35 27 00
01	08	13.00	113 06 36	35 17 24
01	08	14.00	113 21 00	35 10 12
01	08	15.00	113 31 12	35 01 12
01	08	16.00	114 00 36	35 00 36
01	08	17.00	113 58 48	34 49 12
01	08	18.00	114 13 12	34 36 00
01	08	19.00	114 21 00	34 31 48
01	08	20.00	114 31 12	34 22 48
01	08	21.00	114 42 00	34 22 48
01	08	22.00	114 48 00	34 18 00
01	08	23.00	115 01 12	34 09 00
01	08	24.00	115 15 36	34 01 12
01	08	25.00	115 28 48	33 44 24
01	08	26.00	115 33 36	33 44 24
01	08	27.00	115 44 24	33 37 12
01	08	28.00	115 58 12	33 35 24
01	08	29.00	116 03 00	33 29 24
01	08	30.00	116 20 24	33 22 12
01	08	31.00	116 30 00	33 17 24
01	08	32.00	116 38 24	33 13 48
01	08	33.00	116 53 24	33 03 36
01	08	34.00	117 00 00	32 54 00
01	08	35.00	117 12 00	32 43 48
01	08	36.00	117 22 48	32 36 00
01	08	37.00	117 30 00	32 32 24
01	08	38.00	117 39 36	32 21 00
01	08	39.00	117 54 36	32 17 24
01	08	40.00	118 00 00	32 10 48
01	08	41.00	118 06 00	32 07 12
01	08	42.00	118 14 24	31 59 24
01	08	43.00	118 26 24	31 51 00
01	08	44.00	118 36 00	31 45 36
01	08	45.00	118 43 48	31 39 00
01	08	46.00	118 52 12	31 27 00
01	08	47.00	119 00 36	31 19 48
01	08	48.00	119 06 36	31 09 36
01	08	49.00	119 18 36	31 07 48
01	08	50.00	119 25 48	30 58 12
01	08	51.00	119 35 24	30 54 00
01	08	52.00	119 48 36	30 50 24
01	08	53.00	119 51 36	30 40 48
01	08	54.00	120 07 48	30 34 12
01	08	55.00	120 06 36	30 28 12
01	08	56.00	120 14 24	30 26 24
01	08	57.00	120 14 24	30 09 00
01	08	58.00	120 27 36	30 11 24
01	08	59.00	120 36 36	29 58 12
01	09	00.00	120 46 48	29 54 00
01	09	01.00	120 58 12	29 46 48
01	09	02.00	121 08 24	29 38 24
01	09	03.00	121 15 36	29 33 36
01	09	04.00	121 24 36	29 27 00
01	09	05.00	121 31 12	29 19 12
01	09	06.00	121 38 24	29 16 12
01	09	07.00	121 49 48	29 09 00
01	09	08.00	121 55 12	29 05 24
01	09	09.00	122 02 24	28 55 48
01	09	10.00	122 06 36	28 52 48
01	09	11.00	122 14 24	28 43 48
01	09	12.00	122 22 48	28 36 00
01	09	13.00	122 30 00	28 30 00
01	09	14.00	122 35 24	28 22 12
01	09	15.00	122 43 48	28 18 36
01	09	16.00	122 54 00	28 11 24
01	09	17.00	122 58 48	28 05 24

PATRICK AFB OPT.TR STA. 1.5 LAT. 28 29 33 N LONG. 279 25 27 E HT 0015 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	09	18.00	123 12 00	27 59 24	01	10	25.00	129 20 24	21 44 24
01	09	19.00	123 13 12	27 59 24	01	10	26.00	129 24 00	21 41 24
01	09	20.00	123 25 48	27 50 24	01	10	27.00	129 33 36	21 39 36
01	09	21.00	123 31 12	27 48 36	01	10	28.00	129 35 24	21 33 00
01	09	22.00	123 35 24	27 39 36	01	10	29.00	129 43 12	21 27 36
01	09	23.00	123 36 36	27 33 36	01	10	30.00	129 43 48	21 21 00
01	09	24.00	123 44 24	27 25 48	01	10	31.00	129 48 36	21 16 48
01	09	25.00	123 57 00	27 10 12	01	10	32.00	129 52 12	21 14 24
01	09	26.00	124 04 12	27 07 48	01	10	33.00	129 57 00	21 09 00
01	09	27.00	124 08 24	27 04 48	01	10	34.00	130 02 24	21 04 12
01	09	28.00	124 14 24	26 59 24	01	10	35.00	130 06 00	21 00 36
01	09	29.00	124 15 36	26 54 00	01	10	36.00	130 09 36	20 58 12
01	09	30.00	124 27 00	26 46 12	01	10	37.00	130 16 48	20 48 00
01	09	31.00	124 34 12	26 42 00	01	10	38.00	130 17 24	20 48 36
01	09	32.00	124 39 00	26 35 24	01	10	39.00	130 24 36	20 43 12
01	09	33.00	124 45 00	26 34 48	01	10	40.00	130 27 00	20 39 36
01	09	34.00	124 50 24	26 25 48	01	10	41.00	130 30 00	20 43 12
01	09	35.00	125 02 24	26 25 48	01	10	42.00	130 35 24	20 32 24
01	09	36.00	125 05 24	26 14 24	01	10	43.00	130 35 24	20 24 00
01	09	37.00	125 07 12	26 05 24	01	10	44.00	130 37 48	20 11 24
01	09	38.00	125 16 12	26 06 00	01	10	45.00	130 42 36	20 10 48
01	09	39.00	125 39 36	25 56 24	01	10	46.00	130 51 00	20 04 48
01	09	40.00	125 34 12	25 46 48	01	10	47.00	130 52 48	20 01 48
01	09	41.00	125 35 24	25 41 24	01	10	48.00	130 57 36	19 57 36
01	09	42.00	125 37 48	25 29 24	01	10	49.00	131 03 00	19 51 00
01	09	43.00	125 42 36	25 27 00	01	10	50.00	131 04 48	19 45 36
01	09	44.00	125 52 12	25 21 00	01	10	51.00	131 10 48	19 44 24
01	09	45.00	125 57 00	25 12 36	01	10	52.00	131 13 12	19 40 12
01	09	46.00	126 04 48	25 09 36	01	10	53.00	131 16 12	19 36 00
01	09	47.00	126 09 00	25 09 36	01	10	54.00	131 23 24	19 31 12
01	09	48.00	126 12 00	25 09 00	01	10	55.00	131 25 12	19 27 00
01	09	49.00	126 16 48	25 01 48	01	10	56.00	131 30 00	19 21 36
01	09	50.00	126 25 12	24 48 36	01	10	57.00	131 35 24	19 15 36
01	09	51.00	126 27 36	24 44 24	01	10	58.00	131 40 12	19 09 00
01	09	52.00	126 38 24	24 37 48	01	10	59.00	131 43 12	19 06 00
01	09	53.00	126 39 00	24 30 36	01	11	00.00	131 50 24	19 04 12
01	09	54.00	126 44 24	24 24 36	01	11	01.00	131 50 24	18 56 24
01	09	55.00	126 50 24	24 18 36	01	11	02.00	131 54 00	18 51 00
01	09	56.00	126 58 48	24 13 12	01	11	03.00	131 55 48	18 45 00
01	09	57.00	127 01 12	24 10 12	01	11	04.00	132 00 00	18 45 00
01	09	58.00	127 08 24	23 58 48	01	11	05.00	132 03 36	18 41 24
01	09	59.00	127 12 00	23 59 24	01	11	06.00	132 04 48	18 39 00
01	10	00.00	127 21 00	23 52 48	01	11	07.00	132 11 24	18 32 24
01	10	01.00	127 25 12	23 49 12	01	11	08.00	132 12 36	18 30 00
01	10	02.00	127 28 12	23 46 12	01	11	09.00	132 18 36	18 21 00
01	10	03.00	127 38 24	23 41 24	01	11	10.00	132 22 12	18 16 48
01	10	04.00	127 41 24	23 36 36	01	11	11.00	132 24 00	18 10 12
01	10	05.00	127 47 24	23 30 00	01	11	12.00	132 31 12	18 03 00
01	10	06.00	127 51 36	23 23 24	01	11	13.00	132 33 00	17 58 12
01	10	07.00	127 57 00	23 19 12	01	11	14.00	132 36 00	17 51 00
01	10	08.00	128 04 48	23 12 36	01	11	15.00	132 43 12	17 48 36
01	10	09.00	128 09 00	23 07 12	01	11	16.00	132 43 12	17 48 36
01	10	10.00	128 16 48	23 01 48	01	11	17.00	132 43 12	17 46 48
01	10	11.00	128 20 24	22 57 00	01	11	18.00	132 46 12	17 42 00
01	10	12.00	128 24 00	22 51 00	01	11	19.00	132 47 24	17 41 24
01	10	13.00	128 29 24	22 48 36	01	11	20.00	132 49 12	17 38 24
01	10	14.00	128 32 24	22 43 48	01	11	21.00	132 50 24	17 36 00
01	10	15.00	128 34 48	22 36 00	01	11	22.00	132 55 12	17 27 36
01	10	16.00	128 39 00	22 31 48	01	11	23.00	133 01 48	17 22 48
01	10	17.00	128 46 12	22 26 24	01	11	24.00	133 06 00	17 14 24
01	10	18.00	128 52 48	22 22 12	01	11	25.00	133 09 36	17 14 24
01	10	19.00	128 57 00	22 15 36	01	11	26.00	133 10 48	17 08 24
01	10	20.00	129 01 48	22 10 12	01	11	27.00	133 13 12	17 05 24
01	10	21.00	129 04 12	22 04 12	01	11	28.00	133 14 24	17 02 24
01	10	22.00	129 04 48	21 53 24	01	11	29.00	133 15 00	16 59 24
01	10	23.00	129 06 00	21 54 00	01	11	30.00	133 16 48	16 55 48
01	10	24.00	129 19 12	21 48 00	01	11	31.00	133 17 24	16 50 24

PATRICK AFB OPT.TR STA. 3.2 LAT. 26 36 59 N LONG. 280 38 23 E HT 0016 M

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HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	04	00.00	359 12 00	27 04 12	01	05	10.00	019 15 36	40 04 12
01	04	01.00	359 12 00	26 59 24	01	05	11.00	019 52 48	40 05 24
01	04	02.00	359 14 24	26 38 24	01	05	12.00	020 19 48	40 19 48
01	04	03.00	359 18 36	27 46 12	01	05	13.00	020 21 36	40 41 24
01	04	04.00	000 01 48	26 25 48	01	05	14.00	020 49 12	40 43 48
01	04	05.00	000 34 12	26 28 12	01	05	15.00	021 16 48	41 00 36
01	04	06.00	000 42 36	26 33 36	01	05	16.00	021 23 24	41 00 36
01	04	07.00	004 01 12	25 00 36	01	05	17.00	022 01 48	41 18 36
01	04	08.00	005 41 24	26 27 36	01	05	18.00	022 33 36	41 25 12
01	04	09.00	006 02 24	28 37 12	01	05	19.00	022 33 36	41 39 00
01	04	10.00	006 02 24	28 18 36	01	05	20.00	022 59 24	41 49 12
01	04	11.00	006 09 36	28 26 24	01	05	21.00	023 18 00	41 55 12
01	04	12.00	006 10 12	28 28 48	01	05	22.00	023 46 12	42 09 36
01	04	13.00	005 43 48	30 50 24	01	05	23.00	023 56 24	42 21 00
01	04	14.00	005 29 24	30 36 36	01	05	24.00	024 23 24	42 30 00
01	04	15.00	005 39 36	29 25 12	01	05	25.00	024 47 24	42 49 12
01	04	16.00	005 52 12	29 56 24	01	05	26.00	025 17 24	42 55 12
01	04	17.00	005 51 36	30 39 36	01	05	27.00	026 06 36	43 17 24
01	04	18.00	006 00 36	30 39 00	01	05	28.00	026 06 00	43 07 12
01	04	19.00	006 22 12	30 52 12	01	05	29.00	026 37 12	43 33 00
01	04	20.00	006 28 12	31 07 12	01	05	30.00	026 55 12	43 37 12
01	04	21.00	006 50 24	31 01 48	01	05	31.00	027 19 12	43 46 48
01	04	22.00	006 56 24	31 31 48	01	05	32.00	027 49 12	43 54 00
01	04	23.00	007 18 36	31 45 00	01	05	33.00	027 59 24	44 07 12
01	04	24.00	007 31 12	31 30 36	01	05	34.00	028 30 36	44 10 48
01	04	25.00	007 28 12	31 57 36	01	05	35.00	028 48 36	44 25 12
01	04	26.00	008 01 12	31 54 00	01	05	36.00	029 18 00	44 32 24
01	04	27.00	007 47 24	32 22 12	01	05	37.00	029 37 48	44 49 12
01	04	28.00	008 05 00	32 14 24	01	05	38.00	030 09 00	44 54 00
01	04	29.00	008 15 36	32 36 00	01	05	39.00	030 36 36	45 00 00
01	04	30.00	008 36 36	32 32 24	01	05	40.00	031 04 48	45 15 36
01	04	31.00	008 36 36	32 53 24	01	05	41.00	031 31 12	45 25 12
01	04	32.00	008 58 12	32 57 00	01	05	42.00	031 57 36	45 31 48
01	04	33.00	009 05 24	33 09 00	01	05	43.00	032 28 48	45 43 12
01	04	34.00	009 31 12	33 09 00	01	05	44.00	033 01 12	45 53 24
01	04	35.00	009 31 12	33 30 36	01	05	45.00	033 14 24	46 04 48
01	04	36.00	009 49 48	33 42 36	01	05	46.00	033 53 24	46 24 36
01	04	37.00	010 06 36	33 51 36	01	05	47.00	034 38 24	46 21 00
01	04	38.00	010 12 00	34 07 48	01	05	48.00	034 46 12	46 39 00
01	04	39.00	010 42 00	34 07 48	01	05	49.00	035 24 00	46 43 12
01	04	40.00	010 42 00	34 30 36	01	05	50.00	035 46 12	46 54 36
01	04	41.00	011 13 48	34 37 12	01	05	51.00	036 28 12	47 05 24
01	04	42.00	011 13 48	34 44 24	01	05	52.00	037 03 00	47 17 24
01	04	43.00	011 27 36	35 07 12	01	05	53.00	037 43 12	47 22 48
01	04	44.00	011 45 36	35 12 00	01	05	54.00	037 58 12	47 27 00
01	04	45.00	011 56 24	35 16 12	01	05	55.00	038 21 36	47 39 36
01	04	46.00	012 15 36	35 25 12	01	05	56.00	038 39 36	47 39 36
01	04	47.00	012 16 48	35 48 00	01	05	57.00	039 07 12	47 44 24
01	04	48.00	012 35 24	35 44 24	01	05	58.00	039 41 24	47 49 12
01	04	49.00	012 54 36	36 09 36	01	05	59.00	040 15 36	47 55 12
01	04	50.00	013 10 48	36 15 00	01	06	00.00	040 47 24	48 09 00
01	04	51.00	013 39 36	36 37 12	01	06	01.00	041 26 24	48 12 36
01	04	52.00	013 51 36	36 32 24	01	06	02.00	041 50 24	48 27 36
01	04	53.00	014 07 12	37 03 00	01	06	03.00	042 22 48	48 35 24
01	04	54.00	014 25 12	37 04 48	01	06	04.00	042 58 12	48 34 48
01	04	55.00	014 43 12	37 13 48	01	06	05.00	043 24 36	48 49 12
01	04	56.00	015 00 36	37 27 36	01	06	06.00	044 07 48	48 44 24
01	04	57.00	015 18 36	37 41 24	01	06	07.00	044 35 24	49 01 12
01	04	58.00	015 29 24	37 45 36	01	06	08.00	045 25 12	49 09 00
01	04	59.00	016 07 48	38 04 12	01	06	09.00	045 50 24	49 17 24
01	05	00.00	016 07 12	38 14 24	01	06	10.00	046 29 24	49 25 48
01	05	01.00	016 33 00	38 15 36	01	06	11.00	046 55 48	49 31 12
01	05	02.00	016 53 24	38 29 24	01	06	12.00	047 33 36	49 42 00
01	05	03.00	017 07 48	38 40 12	01	06	13.00	048 15 36	49 44 24
01	05	04.00	017 22 12	38 39 36	01	06	14.00	049 07 48	49 39 36
01	05	05.00	017 44 24	39 04 48	01	06	15.00	049 14 24	49 42 36
01	05	06.00	018 03 36	39 21 36	01	06	16.00	049 49 48	49 55 12
01	05	07.00	018 27 36	39 29 24	01	06	17.00	050 54 00	50 06 36
01	05	08.00	018 59 24	39 28 48	01	06	18.00	051 13 48	50 04 48
01	05	09.00	018 59 24	39 48 36	01	06	19.00	051 33 00	50 12 36

PATRICK AFB OPT.TR STA. 3.2

LAT. 26 36 59 N

LONG. 280 38 23 E

HT 0016 M

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HR	MIN	SEC	AZIMUTH	ELEVATION
01	06	20.00	052 17 24	50 12 36
01	06	21.00	052 55 12	50 24 36
01	06	22.00	053 24 36	50 22 12
01	06	23.00	053 59 24	50 21 36
01	06	24.00	054 31 12	50 30 36
01	06	25.00	054 55 48	50 33 36
01	06	26.00	055 49 12	50 39 00
01	06	27.00	056 06 00	50 41 24
01	06	28.00	056 52 12	50 46 12
01	06	29.00	057 18 36	50 57 36
01	06	30.00	057 51 00	50 56 24
01	06	31.00	058 25 48	51 03 00
01	06	32.00	059 07 12	51 06 36
01	06	33.00	059 51 00	51 02 24
01	06	34.00	060 29 24	51 07 48
01	06	35.00	061 13 48	51 12 36
01	06	36.00	061 39 00	51 12 00
01	06	37.00	062 21 00	51 16 12
01	06	38.00	062 56 24	51 16 12
01	06	39.00	063 42 36	51 15 36
01	06	40.00	064 10 48	51 19 12
01	06	41.00	064 54 36	51 15 36
01	06	42.00	065 24 36	51 15 36
01	06	43.00	066 09 00	51 18 36
01	06	44.00	066 49 12	51 18 36
01	06	45.00	067 11 24	51 16 12
01	06	46.00	067 47 24	51 16 12
01	06	47.00	068 28 12	51 16 12
01	06	48.00	068 58 12	51 16 12
01	06	49.00	069 34 48	51 13 12
01	06	50.00	070 36 36	50 55 12
01	06	51.00	071 08 24	51 11 24
01	06	52.00	071 43 12	51 04 12
01	06	53.00	072 04 48	51 10 12
01	06	54.00	072 35 24	51 06 36
01	06	55.00	073 03 36	51 06 36
01	06	56.00	073 37 12	51 10 12
01	06	57.00	074 24 36	50 57 36
01	06	58.00	074 54 36	51 04 12
01	06	59.00	075 28 12	51 01 12
01	07	00.00	076 04 48	50 51 36
01	07	01.00	076 42 00	50 52 12
01	07	02.00	076 54 00	50 51 36
01	07	03.00	077 35 24	50 46 12
01	07	04.00	078 02 24	50 28 48
01	07	05.00	078 40 12	50 38 24
01	07	06.00	079 31 12	50 30 36
01	07	07.00	079 50 24	50 28 12
01	07	08.00	080 17 24	50 23 24
01	07	09.00	080 46 48	50 21 00
01	07	10.00	081 28 48	50 21 00
01	07	11.00	082 01 12	50 12 36
01	07	12.00	082 10 12	49 40 12
01	07	13.00	083 11 24	49 49 12
01	07	14.00	083 45 36	49 57 00
01	07	15.00	084 26 24	49 44 24
01	07	16.00	084 37 12	49 39 00
01	07	17.00	085 05 24	49 41 24
01	07	18.00	085 47 24	49 38 24
01	07	19.00	086 13 12	49 34 12
01	07	20.00	086 40 12	49 25 48
01	07	21.00	087 08 24	49 25 48
01	07	22.00	087 49 12	49 11 24
01	07	23.00	088 06 00	49 17 24
01	07	24.00	087 54 36	48 46 12
01	07	25.00	088 49 12	49 27 36
01	07	26.00	089 46 48	48 52 48
01	07	27.00	089 52 48	48 58 48
01	07	28.00	090 23 24	48 44 24
01	07	29.00	090 42 36	48 43 48

HR	MIN	SEC	AZIMUTH	ELEVATION
01	07	30.00	091 08 24	48 29 24
01	07	31.00	091 40 48	48 27 36
01	07	32.00	092 22 12	48 18 36
01	07	33.00	092 23 24	48 09 00
01	07	34.00	092 53 24	48 08 24
01	07	35.00	093 16 48	47 55 12
01	07	36.00	093 47 24	47 45 36
01	07	37.00	094 12 36	47 43 48
01	07	38.00	094 38 24	47 33 00
01	07	39.00	095 00 00	47 31 48
01	07	40.00	095 26 24	47 22 48
01	07	41.00	095 56 24	47 13 12
01	07	42.00	096 21 36	47 11 24
01	07	43.00	096 47 24	47 11 24
01	07	44.00	097 09 36	46 53 24
01	07	45.00	097 42 36	46 53 24
01	07	46.00	098 11 24	46 46 48
01	07	47.00	098 27 36	46 35 24
01	07	48.00	098 51 00	46 29 24
01	07	49.00	099 27 00	46 27 30
01	07	50.00	099 39 36	46 09 36
01	07	51.00	099 59 24	46 06 00
01	07	52.00	100 32 24	45 56 24
01	07	53.00	100 55 48	45 41 24
01	07	54.00	101 17 24	45 44 24
01	07	55.00	101 49 12	45 40 48
01	07	56.00	101 53 24	45 24 00
01	07	57.00	102 24 36	45 16 48
01	07	58.00	102 44 24	45 06 36
01	07	59.00	102 55 12	45 01 48
01	08	00.00	103 30 00	44 52 12
01	08	01.00	103 47 24	44 37 48
01	08	02.00	104 10 12	44 37 48
01	08	03.00	104 38 24	44 37 48
01	08	04.00	104 51 36	44 34 12
01	08	05.00	105 02 24	44 33 36
01	08	06.00	105 04 12	44 10 12
01	08	07.00	105 23 24	43 47 24
01	08	08.00	105 57 00	43 36 36
01	08	09.00	106 20 24	43 30 00
01	08	10.00	106 34 48	43 06 00
01	08	11.00	106 57 00	43 13 12
01	08	12.00	107 17 24	43 21 36
01	08	13.00	107 33 36	42 55 12
01	08	14.00	107 43 12	43 03 36
01	08	15.00	108 05 24	42 57 36
01	08	16.00	108 24 36	42 42 00
01	08	17.00	108 35 24	42 35 24
01	08	18.00	108 52 48	42 29 24
01	08	19.00	109 07 48	42 22 48
01	08	20.00	109 31 12	42 18 36
01	08	21.00	109 37 12	42 00 36
01	08	22.00	110 02 24	41 51 00
01	08	23.00	110 13 12	41 43 12
01	08	24.00	110 31 12	41 36 00
01	08	25.00	110 47 24	41 34 12
01	08	26.00	111 02 24	41 30 36
01	08	27.00	111 19 12	41 16 12
01	08	28.00	111 37 12	41 10 12
01	08	29.00	112 00 36	41 00 36
01	08	30.00	112 36 36	40 39 00
01	08	31.00	112 22 12	40 51 00
01	08	32.00	112 33 36	40 45 36
01	08	33.00	112 42 00	40 24 00
01	08	34.00	113 05 24	40 12 00
01	08	35.00	113 15 36	40 07 12
01	08	36.00	113 36 36	39 52 48
01	08	37.00	113 37 48	39 42 36
01	08	38.00	113 39 36	39 48 00
01	08	39.00	114 08 24	39 42 36

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16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	08	40.00	114 22 48	39 25 48
01	08	41.00	114 29 24	39 14 24
01	08	42.00	114 46 12	39 12 36
01	08	43.00	115 02 24	38 57 36
01	08	44.00	115 10 48	38 49 12
01	08	45.00	115 29 24	38 44 24
01	08	46.00	115 48 36	38 36 36
01	08	47.00	116 14 24	38 25 12
01	08	48.00	116 13 12	38 21 00
01	08	49.00	116 32 24	38 06 00
01	08	50.00	116 46 12	38 22 12
01	08	51.00	116 46 12	38 07 12
01	08	52.00	117 05 24	38 10 12
01	08	53.00	117 12 00	37 46 12
01	08	54.00	117 24 36	37 41 24
01	08	55.00	117 27 00	37 09 00
01	08	56.00	117 29 24	37 18 36
01	08	57.00	117 41 24	36 48 00
01	08	58.00	117 46 12	36 59 24
01	08	59.00	118 12 36	36 51 00
01	09	00.00	118 15 00	36 55 12
01	09	01.00	118 30 36	36 39 36
01	09	02.00	118 51 36	36 37 12
01	09	03.00	119 05 24	36 19 12
01	09	04.00	119 20 24	36 19 12
01	09	05.00	119 34 12	36 06 00
01	09	06.00	119 47 24	36 04 12
01	09	07.00	120 08 24	35 55 12
01	09	08.00	120 27 36	35 43 12
01	09	09.00	120 26 24	35 47 24
01	09	10.00	120 34 48	35 29 24
01	09	11.00	120 45 36	35 36 00
01	09	12.00	120 51 36	35 28 12
01	09	13.00	120 53 24	35 12 36
01	09	14.00	121 21 00	35 07 12
01	09	15.00	121 16 12	34 54 00
01	09	16.00	121 32 24	34 48 00
01	09	17.00	121 38 24	34 41 24
01	09	18.00	121 45 00	34 41 24
01	09	19.00	121 55 12	34 27 36
01	09	20.00	122 03 36	34 21 00
01	09	21.00	122 12 36	34 11 24
01	09	22.00	122 24 36	34 11 24
01	09	23.00	122 35 24	33 58 48
01	09	24.00	122 42 36	33 54 00
01	09	25.00	122 55 48	33 51 00
01	09	26.00	122 59 24	33 35 24
01	09	27.00	123 16 12	33 35 24
01	09	28.00	123 27 00	33 17 24
01	09	29.00	123 36 00	33 25 12
01	09	30.00	123 51 36	33 10 48
01	09	31.00	123 54 36	33 06 00
01	09	32.00	124 00 36	33 03 36
01	09	33.00	124 06 36	32 54 00
01	09	34.00	124 13 12	32 47 24
01	09	35.00	124 26 24	32 41 24
01	09	36.00	124 26 24	32 24 00
01	09	37.00	124 32 24	32 13 12
01	09	38.00	124 41 24	32 13 12
01	09	39.00	124 51 36	32 06 36
01	09	40.00	124 55 48	32 04 12
01	09	41.00	125 08 24	31 53 24
01	09	42.00	125 15 00	31 53 24
01	09	43.00	125 21 00	31 45 00
01	09	44.00	125 21 36	31 44 24
01	09	45.00	125 39 36	31 25 48
01	09	46.00	125 46 12	31 22 12
01	09	47.00	126 00 36	31 06 00
01	09	48.00	126 05 24	30 49 12
01	09	49.00	126 03 00	31 00 00

HR	MIN	SEC	AZIMUTH	ELEVATION
01	09	50.00	126 03 36	30 43 48
01	09	51.00	126 16 12	30 39 36
01	09	52.00	126 28 12	30 38 24
01	09	53.00	126 40 12	30 25 48
01	09	54.00	126 55 12	30 21 00
01	09	55.00	127 23 24	29 27 36
01	09	56.00	127 09 36	30 14 24
01	09	57.00	127 09 36	29 58 12
01	09	58.00	127 11 24	29 44 24
01	09	59.00	127 12 00	29 14 24
01	10	00.00	127 21 00	29 00 36
01	10	01.00	127 21 36	29 00 36
01	10	02.00	128 10 12	29 01 12
01	10	03.00	128 07 12	28 04 12
01	10	04.00	129 34 12	32 03 36
01	10	05.00	129 26 24	31 19 48
01	10	06.00	129 26 24	31 27 36
01	10	07.00	129 26 24	31 09 36
01	10	08.00	129 26 24	30 52 12
01	10	09.00	129 26 24	31 07 48
01	10	10.00	129 24 00	32 15 00
01	10	11.00	129 08 24	31 03 00
01	10	12.00	129 08 24	30 55 12
01	10	13.00	129 08 24	30 48 00
01	10	14.00	129 18 00	30 40 48
01	10	15.00	129 24 36	30 16 48
01	10	16.00	129 24 36	30 06 36
01	10	17.00	129 24 36	29 55 48
01	10	18.00	129 49 12	29 52 12
01	10	19.00	130 27 36	29 24 00
01	10	20.00	130 28 12	29 14 24
01	10	21.00	130 28 12	28 55 48
01	10	22.00	130 33 36	28 42 36
01	10	23.00	130 35 24	28 04 12
01	10	24.00	130 39 00	27 40 48
01	10	25.00	130 39 36	27 01 48
01	10	26.00	131 24 36	25 54 00
01	10	27.00	132 23 24	25 31 12
01	10	28.00	132 58 48	25 25 48
01	10	29.00	132 57 36	25 10 48
01	10	30.00	133 06 00	25 18 36
01	10	31.00	133 06 00	25 12 00
01	10	32.00	133 23 24	23 06 00
01	10	33.00	133 48 36	21 34 48
01	10	34.00	133 52 12	18 41 24
01	10	35.00	134 22 48	21 42 00
01	10	36.00	134 35 24	23 56 24
01	10	37.00	135 19 48	22 46 48
01	10	38.00	135 47 24	23 06 36
01	10	39.00	135 58 48	23 13 48
01	10	40.00	135 57 36	23 17 24
01	10	41.00	135 49 12	23 48 36
01	10	42.00	135 48 36	24 22 12
01	10	43.00	135 37 12	23 59 24
01	10	44.00	135 42 36	23 52 12
01	10	45.00	135 44 24	23 24 36
01	10	46.00	135 52 12	23 26 24
01	10	47.00	136 21 36	25 31 12
01	10	48.00	136 20 24	25 24 00
01	10	49.00	136 32 24	25 03 36
01	10	50.00	136 46 48	25 23 24
01	10	51.00	136 57 36	25 15 36
01	10	52.00	137 22 48	25 15 00
01	10	53.00	137 36 00	25 18 36
01	10	54.00	137 52 48	25 18 36
01	10	55.00	138 05 24	25 18 36
01	10	56.00	138 22 48	25 18 36
01	10	57.00	139 11 24	25 09 36
01	10	58.00	140 06 00	25 09 36
01	10	59.00	140 47 24	25 04 12

PATRICK AFB OPT. TR STA. 3.2 LAT. 26 36 59 N LONG. 280 38 23 E HT 0016 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	11	00.00	140 00 00	25 09 00	01	11	38.00	146 36 00	19 04 48
01	11	01.00	141 30 36	25 09 00	01	11	39.00	146 32 24	19 04 48
01	11	02.00	141 37 12	25 09 00	01	11	40.00	146 17 24	17 15 00
01	11	03.00	141 43 12	25 06 36	01	11	41.00	144 36 36	18 35 24
01	11	04.00	141 47 24	25 01 48	01	11	42.00	143 48 36	19 10 48
01	11	05.00	141 49 12	24 38 24	01	11	43.00	142 58 48	19 55 12
01	11	06.00	141 49 12	24 31 12	01	11	44.00	142 36 00	20 33 36
01	11	07.00	141 49 12	24 31 12	01	11	45.00	142 27 00	21 03 36
01	11	08.00	141 49 12	24 30 00	01	11	46.00	142 08 24	21 39 36
01	11	09.00	141 49 48	24 25 12	01	11	47.00	141 58 12	21 56 48
01	11	10.00	141 53 24	23 15 36	01	11	48.00	141 53 24	22 12 36
01	11	11.00	142 01 12	22 59 24	01	11	49.00	141 49 12	22 29 24
01	11	12.00	142 06 00	23 06 00	01	11	50.00	141 43 48	22 49 12
01	11	13.00	142 04 12	23 01 12	01	11	51.00	141 32 24	22 58 12
01	11	14.00	142 06 00	22 26 24	01	11	52.00	141 16 12	23 15 00
01	11	15.00	142 08 24	22 13 48	01	11	53.00	141 07 12	23 10 12
01	11	16.00	142 14 24	22 13 48	01	11	54.00	141 01 12	23 08 24
01	11	17.00	142 15 00	22 07 12	01	11	55.00	140 00 36	23 08 24
01	11	18.00	142 16 48	22 06 00	01	11	56.00	141 04 12	23 03 36
01	11	19.00	143 09 36	22 06 00	01	11	57.00	141 04 12	23 03 36
01	11	20.00	145 26 24	22 09 00	01	11	58.00	141 04 12	23 03 36
01	11	21.00	146 07 12	20 31 48	01	11	59.00	141 04 12	23 03 36
01	11	22.00	146 04 12	18 37 12	01	12	00.00	141 04 12	23 03 36
01	11	23.00	146 07 12	18 42 36	01	12	01.00	141 04 12	23 03 36
01	11	24.00	146 06 36	18 57 36	01	12	02.00	141 04 12	23 03 36
01	11	25.00	146 06 36	18 51 36	01	12	03.00	141 04 12	23 09 00
01	11	26.00	146 21 36	19 04 48	01	12	04.00	141 01 48	22 48 36
01	11	27.00	146 21 36	18 56 24	01	12	05.00	141 01 48	22 28 12
01	11	28.00	146 27 36	18 00 36	01	12	06.00	141 01 12	21 52 12
01	11	29.00	146 27 36	18 44 24	01	12	07.00	141 01 12	21 52 12
01	11	30.00	146 27 36	18 42 36	01	12	08.00	141 01 48	21 52 12
01	11	31.00	146 27 36	18 37 12	01	12	09.00	141 08 24	21 19 12
01	11	32.00	146 27 36	18 40 48	01	12	10.00	141 02 24	21 42 36
01	11	33.00	146 30 00	18 49 48	01	12	11.00	141 02 24	21 36 36
01	11	34.00	146 30 36	19 19 12	01	12	12.00	141 02 24	21 36 36
01	11	35.00	146 38 24	19 01 48	01	12	13.00	141 03 00	21 38 24
01	11	36.00	146 41 24	19 02 24	01	12	14.00	141 03 00	21 39 00
01	11	37.00	146 41 24	19 02 24	01	12	15.00	141 06 36	21 37 12

PATRICK AFB THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	03	49.00	011 57 00	33 00 36	01	04	23.00	021 02 24	36 27 36
01	03	50.00	011 57 00	33 52 48	01	04	24.00	021 11 24	36 43 48
01	03	51.00	011 56 24	34 13 12	01	04	25.00	021 28 48	36 52 48
01	03	52.00	011 57 00	34 13 12	01	04	26.00	021 57 00	37 03 36
01	03	53.00	011 57 36	33 30 00	01	04	28.00	022 24 36	37 22 12
01	03	54.00	012 00 00	32 36 00	01	04	30.00	023 00 00	37 43 48
01	03	56.00	013 33 36	31 57 00	01	04	31.00	023 27 36	37 58 48
01	03	57.00	013 33 36	32 01 48	01	04	34.00	024 37 48	38 23 24
01	03	58.00	013 44 24	32 10 48	01	04	35.00	024 49 12	38 31 48
01	03	59.00	014 21 00	32 16 48	01	04	36.00	025 09 00	38 42 36
01	04	00.00	014 21 36	32 34 12	01	04	38.00	026 01 12	39 02 24
01	04	01.00	014 24 00	32 42 00	01	04	39.00	026 28 12	39 08 24
01	04	02.00	014 31 48	32 52 48	01	04	40.00	026 39 36	39 19 48
01	04	04.00	015 05 24	33 12 00	01	04	42.00	027 21 36	39 39 36
01	04	07.00	015 22 48	33 43 48	01	04	43.00	027 48 36	39 48 36
01	04	10.00	017 03 36	34 15 36	01	04	44.00	028 17 36	39 58 48
01	04	11.00	017 18 00	34 28 12	01	04	45.00	028 38 24	40 09 00
01	04	13.00	017 54 00	34 50 24	01	04	46.00	028 51 36	40 19 48
01	04	16.00	018 44 24	35 15 36	01	04	47.00	029 18 36	40 28 48
01	04	17.00	018 54 36	35 27 36	01	04	48.00	029 43 12	40 34 48
01	04	18.00	019 18 00	35 38 24	01	04	49.00	030 01 48	40 45 00
01	04	20.00	020 00 00	36 02 24	01	04	52.00	031 16 48	41 14 24
01	04	21.00	020 15 00	36 12 00	01	04	53.00	031 43 48	41 24 00
01	04	22.00	020 36 00	36 21 00	01	04	54.00	032 00 36	41 31 12

PATRICK AFB THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	04	55.00	032 36 00	41 40 12	01	06	16.00	071 49 12	46 53 24
01	04	57.00	033 06 36	41 56 24	01	06	17.00	072 22 48	46 51 00
01	04	59.00	034 18 36	42 15 36	01	06	19.00	073 28 12	46 43 48
01	05	02.00	035 24 36	42 42 00	01	06	21.00	074 05 24	46 43 48
01	05	03.00	035 55 12	42 52 48	01	06	22.00	074 39 00	46 40 12
01	05	04.00	036 10 12	43 03 36	01	06	23.00	075 19 48	46 38 24
01	05	05.00	036 34 12	43 19 12	01	06	24.00	075 48 36	46 37 12
01	05	07.00	037 28 48	43 18 00	01	06	25.00	076 18 00	46 34 12
01	05	08.00	037 52 12	43 27 36	01	06	28.00	077 19 48	46 18 36
01	05	09.00	038 26 24	43 34 12	01	06	29.00	077 42 00	46 16 48
01	05	10.00	038 58 48	43 40 12	01	06	30.00	078 16 48	46 12 36
01	05	12.00	039 52 12	43 55 12	01	06	31.00	078 52 48	46 12 36
01	05	13.00	040 23 24	44 01 12	01	06	32.00	079 28 48	46 10 12
01	05	14.00	040 49 48	44 10 48	01	06	33.00	080 04 48	46 04 48
01	05	15.00	041 13 48	44 14 24	01	06	34.00	080 27 36	46 03 00
01	05	17.00	042 16 48	44 28 12	01	06	35.00	080 55 48	45 57 00
01	05	18.00	042 37 12	44 31 48	01	06	38.00	082 14 24	45 44 24
01	05	19.00	043 11 24	44 42 00	01	06	40.00	083 04 48	45 34 48
01	05	20.00	043 37 12	44 48 00	01	06	41.00	083 35 24	45 29 24
01	05	21.00	043 54 36	44 54 36	01	06	42.00	084 08 24	45 24 36
01	05	22.00	044 15 00	45 01 12	01	06	43.00	084 38 24	45 23 24
01	05	23.00	044 43 48	45 10 12	01	06	44.00	084 58 48	45 19 12
01	05	24.00	045 22 12	45 25 12	01	06	47.00	086 15 00	45 00 00
01	05	25.00	046 07 48	45 39 00	01	06	48.00	086 34 12	44 54 36
01	05	26.00	046 32 24	45 40 48	01	06	52.00	088 15 36	44 33 36
01	05	27.00	046 46 12	45 26 24	01	06	53.00	088 43 48	44 30 00
01	05	28.00	047 19 48	45 36 00	01	06	54.00	089 02 24	44 23 24
01	05	29.00	047 58 48	45 38 24	01	06	55.00	089 31 12	44 18 00
01	05	31.00	048 58 12	45 49 48	01	06	56.00	089 54 00	44 10 12
01	05	32.00	049 31 12	45 55 12	01	06	57.00	090 16 12	44 06 00
01	05	33.00	049 58 12	45 58 12	01	06	58.00	090 34 48	44 00 00
01	05	34.00	050 36 00	46 03 00	01	06	59.00	090 57 36	43 52 48
01	05	35.00	050 49 12	46 07 48	01	07	00.00	091 19 12	43 46 12
01	05	36.00	051 05 24	46 11 24	01	07	01.00	091 45 36	43 39 00
01	05	37.00	051 52 12	46 16 12	01	07	02.00	092 07 48	43 34 12
01	05	38.00	052 33 36	46 19 12	01	07	03.00	092 31 12	43 28 12
01	05	39.00	052 58 12	46 24 00	01	07	04.00	092 52 12	43 21 36
01	05	40.00	053 35 24	46 30 00	01	07	06.00	093 35 24	43 06 00
01	05	41.00	054 10 12	46 40 12	01	07	07.00	093 55 12	42 58 48
01	05	42.00	054 34 48	46 33 36	01	07	08.00	094 13 48	42 55 12
01	05	43.00	055 04 48	46 34 12	01	07	09.00	094 35 24	42 49 12
01	05	44.00	055 37 48	46 39 00	01	07	12.00	095 42 00	42 28 12
01	05	45.00	056 04 48	46 41 24	01	07	15.00	096 43 48	42 10 12
01	05	46.00	056 35 24	46 44 24	01	07	16.00	097 04 12	42 01 12
01	05	47.00	057 10 12	46 48 36	01	07	17.00	097 25 12	41 54 36
01	05	49.00	058 12 36	46 51 36	01	07	18.00	097 45 36	41 49 48
01	05	50.00	058 39 00	46 53 24	01	07	19.00	098 05 24	41 43 12
01	05	51.00	059 11 24	46 56 24	01	07	21.00	098 37 48	41 26 24
01	05	52.00	059 37 48	46 58 12	01	07	22.00	099 01 12	41 20 24
01	05	53.00	060 20 24	46 57 00	01	07	24.00	099 36 36	41 04 48
01	05	54.00	060 48 36	46 59 24	01	07	25.00	099 54 36	40 58 12
01	05	55.00	061 23 24	47 01 12	01	07	26.00	100 15 36	40 51 36
01	05	56.00	061 43 48	47 03 00	01	07	27.00	100 34 48	40 44 24
01	05	57.00	062 18 36	47 06 36	01	07	28.00	100 54 00	40 39 00
01	05	58.00	062 40 12	47 03 36	01	07	29.00	101 16 48	40 30 36
01	05	59.00	063 22 12	47 03 36	01	07	30.00	101 24 36	40 23 24
01	06	00.00	063 53 24	47 03 36	01	07	31.00	101 44 24	40 15 36
01	06	01.00	064 25 48	47 05 24	01	07	32.00	101 55 12	40 08 24
01	06	03.00	065 18 00	47 06 00	01	07	33.00	102 16 48	39 58 48
01	06	04.00	065 39 36	47 06 36	01	07	34.00	102 32 24	39 52 12
01	06	05.00	066 10 48	47 07 48	01	07	35.00	102 52 12	39 46 48
01	06	06.00	066 46 12	47 07 12	01	07	36.00	103 10 12	39 39 36
01	06	07.00	067 21 00	47 07 12	01	07	37.00	103 27 00	39 31 12
01	06	08.00	067 49 12	47 07 12	01	07	40.00	104 17 24	39 10 12
01	06	09.00	068 24 00	47 06 36	01	07	41.00	104 30 00	39 01 12
01	06	10.00	068 55 48	47 03 36	01	07	42.00	104 51 36	38 54 00
01	06	11.00	069 28 12	47 04 48	01	07	43.00	105 06 00	38 46 12
01	06	12.00	069 55 12	47 01 48	01	07	44.00	105 25 48	38 40 12
01	06	13.00	070 25 48	46 58 48	01	07	45.00	105 36 00	38 34 48
01	06	14.00	070 55 48	46 58 12	01	07	46.00	105 51 36	38 27 36

PATRICK AFB THEO0. STA. 1.3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	07	47.00	106 06 00	38 18 00
01	07	49.00	106 38 24	38 03 00
01	07	50.00	106 52 48	37 54 36
01	07	51.00	107 10 12	37 48 00
01	07	53.00	107 49 48	37 38 24
01	07	55.00	108 04 12	37 18 36
01	07	56.00	108 14 24	37 09 36
01	07	57.00	108 30 00	37 02 24
01	07	58.00	108 46 12	36 55 48
01	07	59.00	109 04 12	36 48 36
01	08	00.00	109 14 24	36 42 36
01	08	03.00	109 55 48	36 20 24
01	08	04.00	110 09 00	36 12 36
01	08	05.00	110 22 12	36 04 48
01	08	07.00	110 48 00	35 51 00
01	08	08.00	110 59 24	35 41 24
01	08	09.00	111 15 36	35 34 12
01	08	10.00	111 27 00	35 27 00
01	08	11.00	111 39 36	35 19 48
01	08	13.00	112 00 00	35 05 24
01	08	14.00	112 15 00	34 58 12
01	08	15.00	112 30 00	34 51 00
01	08	16.00	112 40 48	34 42 36
01	08	18.00	113 02 24	34 28 48
01	08	20.00	113 25 48	34 15 36
01	08	22.00	113 48 36	34 01 48
01	08	24.00	114 15 00	33 46 12
01	08	25.00	114 22 12	33 40 12
01	08	26.00	114 32 24	33 34 12
01	08	27.00	114 45 00	33 25 12
01	08	28.00	114 53 24	33 18 36
01	08	29.00	115 06 36	33 10 12
01	08	30.00	115 20 24	33 03 00
01	08	32.00	115 42 00	32 49 12
01	08	34.00	115 58 12	32 31 48
01	08	35.00	116 09 36	32 27 36
01	08	36.00	116 20 24	32 22 12
01	08	37.00	116 28 12	32 15 36
01	08	38.00	116 37 48	32 08 24
01	08	39.00	116 49 12	32 02 24
01	08	40.00	116 58 48	31 55 12
01	08	41.00	117 08 24	31 48 00
01	08	42.00	117 21 36	31 40 48
01	08	45.00	117 45 36	31 17 24
01	08	49.00	118 27 36	30 52 48
01	08	50.00	118 31 12	30 47 24
01	08	51.00	118 43 12	30 39 00
01	08	52.00	118 56 24	30 31 48
01	08	53.00	118 58 48	30 24 00
01	08	54.00	119 06 36	30 16 12
01	08	55.00	119 14 24	30 10 48
01	08	57.00	119 31 48	30 00 00
01	08	58.00	119 39 36	29 53 24
01	09	00.00	119 56 24	29 39 36
01	09	01.00	120 04 48	29 33 00
01	09	02.00	120 13 48	29 26 24
01	09	03.00	120 25 12	29 19 12
01	09	04.00	120 28 48	29 13 12
01	09	05.00	120 31 48	29 07 12
01	09	06.00	120 46 48	29 00 36
01	09	07.00	120 55 12	28 54 00
01	09	08.00	120 59 24	28 48 36
01	09	09.00	121 04 12	28 42 00
01	09	10.00	121 13 12	28 34 48
01	09	11.00	121 23 24	28 27 00
01	09	12.00	121 31 48	28 21 00
01	09	13.00	121 35 24	28 16 12
01	09	14.00	121 42 36	28 09 00
01	09	15.00	122 03 00	28 03 00
01	09	16.00	122 12 36	27 58 12

HR	MIN	SEC	AZIMUTH	ELEVATION
01	09	17.00	122 13 48	27 50 24
01	09	18.00	122 20 24	27 45 00
01	09	19.00	122 27 00	27 39 36
01	09	20.00	122 31 48	27 33 00
01	09	21.00	122 34 48	27 28 12
01	09	22.00	122 43 48	27 21 36
01	09	23.00	122 53 24	27 15 00
01	09	24.00	123 02 24	27 09 36
01	09	25.00	123 07 48	27 01 48
01	09	26.00	123 12 36	26 55 12
01	09	27.00	123 20 24	26 48 36
01	09	28.00	123 28 12	26 43 12
01	09	29.00	123 51 36	26 25 12
01	09	32.00	123 54 00	26 19 12
01	09	33.00	124 04 12	26 12 36
01	09	34.00	124 06 00	26 06 00
01	09	35.00	124 10 48	26 01 12
01	09	36.00	124 15 00	25 55 48
01	09	37.00	124 27 36	25 49 48
01	09	38.00	124 31 48	25 45 36
01	09	40.00	124 42 00	25 31 48
01	09	41.00	124 46 12	25 24 00
01	09	42.00	124 49 48	25 18 00
01	09	43.00	125 04 12	25 13 48
01	09	45.00	125 10 48	25 05 24
01	09	46.00	125 12 00	25 00 00
01	09	47.00	125 20 24	24 52 12
01	09	49.00	125 41 24	24 42 36
01	09	50.00	125 44 24	24 36 36
01	09	51.00	125 49 12	24 29 24
01	09	52.00	125 59 24	24 24 36
01	09	53.00	126 09 00	24 20 24
01	09	54.00	126 09 00	24 13 48
01	09	55.00	126 08 24	24 05 24
01	09	57.00	126 22 48	23 57 36
01	09	58.00	126 29 24	23 50 24
01	09	59.00	126 34 48	23 44 24
01	10	00.00	126 40 12	23 40 12
01	10	01.00	126 43 12	23 34 12
01	10	02.00	126 46 12	23 27 36
01	10	03.00	126 51 00	23 22 48
01	10	04.00	126 55 12	23 17 24
01	10	05.00	127 10 12	23 12 00
01	10	06.00	127 15 00	23 07 48
01	10	07.00	127 17 24	23 03 36
01	10	08.00	127 18 00	23 01 12
01	10	09.00	127 21 36	22 51 00
01	10	10.00	127 28 12	22 48 36
01	10	11.00	127 36 00	22 42 00
01	10	12.00	127 45 36	22 36 36
01	10	14.00	127 55 48	22 25 48
01	10	15.00	127 57 36	22 19 12
01	10	16.00	127 58 12	22 14 24
01	10	17.00	128 05 24	22 10 12
01	10	19.00	128 19 12	21 58 12
01	10	20.00	128 24 00	21 54 36
01	10	21.00	128 27 36	21 49 48
01	10	22.00	128 33 00	21 42 36
01	10	23.00	128 37 12	21 39 00
01	10	24.00	128 40 48	21 34 12
01	10	25.00	128 49 12	21 28 48
01	10	26.00	128 52 48	21 23 24
01	10	27.00	128 55 12	21 19 12
01	10	28.00	129 01 48	21 13 48
01	10	29.00	129 05 24	21 10 12
01	10	30.00	129 12 00	21 03 36
01	10	31.00	129 15 36	21 00 00
01	10	32.00	129 19 48	20 54 00
01	10	33.00	129 23 24	20 50 24
01	10	34.00	129 29 24	20 43 12

PATRICK AFB THE00. STA. 1.3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	10	35.00	129 33 36	20 39 00	01	11	05.00	131 31 48	18 18 36
01	10	36.00	129 37 48	20 33 00	01	11	06.00	131 37 12	18 13 48
01	10	37.00	129 42 00	20 28 48	01	11	07.00	131 42 00	18 09 00
01	10	38.00	129 43 48	20 25 48	01	11	08.00	131 43 12	18 01 48
01	10	39.00	129 45 00	20 19 48	01	11	09.00	131 45 00	17 58 12
01	10	40.00	129 51 36	20 13 48	01	11	10.00	131 46 48	17 54 36
01	10	42.00	130 00 00	20 04 48	01	11	11.00	131 48 00	17 51 00
01	10	43.00	130 10 12	19 58 48	01	11	12.00	131 49 12	17 47 24
01	10	44.00	130 15 36	19 55 12	01	11	13.00	131 51 36	17 44 24
01	10	45.00	130 16 12	19 50 24	01	11	14.00	132 11 24	17 39 36
01	10	46.00	130 20 24	19 46 48	01	11	15.00	132 30 00	17 37 12
01	10	47.00	130 25 48	19 40 48	01	11	17.00	132 26 24	17 32 24
01	10	48.00	130 31 48	19 37 12	01	11	18.00	132 21 36	17 29 24
01	10	49.00	130 33 36	19 34 12	01	11	19.00	132 19 48	17 25 12
01	10	50.00	130 35 24	19 28 48	01	11	20.00	132 22 12	17 21 36
01	10	51.00	130 39 36	19 22 12	01	11	21.00	132 15 36	17 19 12
01	10	52.00	130 44 24	19 18 00	01	11	22.00	132 10 48	17 06 36
01	10	53.00	130 50 24	19 13 12	01	11	23.00	132 18 00	17 00 36
01	10	55.00	130 52 48	19 01 12	01	11	24.00	132 32 24	16 52 12
01	10	56.00	130 54 36	18 52 12	01	11	25.00	132 43 48	16 48 36
01	10	57.00	130 57 36	18 51 00	01	11	26.00	132 52 12	16 44 24
01	10	58.00	131 06 36	18 48 00	01	11	27.00	132 54 00	16 36 00
01	11	00.00	131 16 48	18 43 12	01	11	28.00	132 55 12	16 28 48
01	11	01.00	131 21 00	18 38 24	01	11	29.00	132 58 12	16 24 00
01	11	02.00	131 22 48	18 31 12	01	11	30.00	133 00 00	16 16 48
01	11	03.00	131 25 12	18 30 00	01	11	31.00	133 01 48	16 10 12
01	11	04.00	131 26 24	18 23 24					

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	03	48.00	011 22 12	31 07 12	01	04	23.00	021 06 36	37 15 36
01	03	49.00	011 33 00	31 18 36	01	04	24.00	021 35 24	37 28 12
01	03	50.00	011 49 48	31 28 48	01	04	25.00	021 51 36	37 39 00
01	03	51.00	012 03 36	31 39 00	01	04	26.00	022 00 36	37 49 48
01	03	52.00	012 18 00	31 51 00	01	04	27.00	022 30 00	37 58 12
01	03	53.00	012 33 36	31 58 12	01	04	28.00	022 46 48	38 09 36
01	03	54.00	012 49 48	32 12 00	01	04	29.00	023 10 12	38 17 24
01	03	55.00	013 06 00	32 22 12	01	04	30.00	023 35 24	38 30 00
01	03	56.00	013 18 36	32 31 12	01	04	31.00	023 54 00	38 39 00
01	03	57.00	013 34 48	32 43 12	01	04	32.00	024 14 24	38 49 12
01	03	58.00	014 50 24	32 53 24	01	04	33.00	024 39 00	39 00 00
01	03	59.00	014 09 36	32 59 24	01	04	34.00	024 57 00	39 08 24
01	04	00.00	014 24 36	33 13 12	01	04	35.00	025 20 24	39 18 36
01	04	01.00	014 39 00	33 25 48	01	04	36.00	025 42 36	39 30 36
01	04	02.00	014 53 24	33 34 12	01	04	37.00	026 02 24	39 40 12
01	04	03.00	015 10 48	33 45 00	01	04	38.00	026 26 24	39 48 36
01	04	04.00	015 27 36	33 55 48	01	04	39.00	026 46 12	39 59 24
01	04	05.00	015 46 48	34 06 00	01	04	40.00	026 59 24	40 10 12
01	04	06.00	016 01 12	34 20 24	01	04	41.00	027 28 12	40 19 12
01	04	07.00	016 16 48	34 30 36	01	04	42.00	027 57 36	40 28 48
01	04	08.00	016 33 36	34 39 00	01	04	43.00	028 18 00	40 39 00
01	04	09.00	016 50 24	34 49 12	01	04	44.00	028 45 36	40 49 12
01	04	10.00	017 10 48	34 58 48	01	04	45.00	029 04 48	40 57 00
01	04	11.00	017 28 12	35 08 24	01	04	46.00	029 29 24	41 08 24
01	04	12.00	017 43 12	35 20 24	01	04	47.00	029 57 00	41 14 24
01	04	13.00	017 59 24	35 33 36	01	04	48.00	030 21 36	41 24 00
01	04	14.00	018 19 48	35 40 48	01	04	49.00	030 43 12	41 35 24
01	04	15.00	018 40 12	35 52 12	01	04	50.00	031 08 24	41 43 12
01	04	16.00	018 58 48	36 04 12	01	04	51.00	031 30 36	41 52 12
01	04	17.00	019 18 36	36 12 00	01	04	52.00	031 54 00	42 03 00
01	04	18.00	019 39 36	36 23 24	01	04	53.00	032 19 48	42 11 24
01	04	19.00	019 55 12	36 36 36	01	04	54.00	032 46 48	42 19 12
01	04	20.00	020 13 48	36 45 00	01	04	55.00	033 14 24	42 27 36
01	04	21.00	020 31 48	36 56 24	01	04	56.00	033 39 00	42 36 36
01	04	22.00	020 52 48	37 06 00	01	04	57.00	034 04 48	42 47 24

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

16 MAY 58

HR MIN SEC AZIMUTH ELEVATION

01 04 58.00 034 31 12 42 54 36
01 04 59.00 034 57 36 43 02 24
01 05 00.00 035 21 36 43 12 00
01 05 01.00 035 46 48 43 19 48
01 05 02.00 036 13 48 43 28 12

01 05 03.00 036 42 36 43 34 12
01 05 04.00 037 10 12 43 43 48
01 05 05.00 037 38 24 43 52 12
01 05 06.00 038 06 36 43 58 48
01 05 07.00 038 30 00 44 08 24

01 05 08.00 038 58 48 44 16 12
01 05 09.00 039 25 48 44 22 12
01 05 10.00 039 55 48 44 30 00
01 05 11.00 040 23 24 44 36 36
01 05 12.00 040 54 36 44 43 48

01 05 13.00 041 19 12 44 52 12
01 05 14.00 041 48 36 45 01 48
01 05 15.00 042 18 00 45 05 24
01 05 16.00 042 43 12 45 11 24
01 05 17.00 043 16 48 45 18 36

01 05 18.00 043 46 48 45 24 00
01 05 19.00 044 16 48 45 31 48
01 05 20.00 044 46 48 45 36 00
01 05 21.00 045 13 48 45 41 24
01 05 22.00 045 46 12 45 47 24

01 05 23.00 046 12 36 45 52 12
01 05 24.00 046 45 00 45 59 24
01 05 25.00 047 13 48 46 06 00
01 05 26.00 047 44 24 46 12 00
01 05 27.00 048 13 48 46 13 48

01 05 28.00 048 44 24 46 21 36
01 05 29.00 049 17 24 46 26 24
01 05 30.00 049 49 48 46 30 36
01 05 31.00 050 19 12 46 34 12
01 05 32.00 050 49 12 46 38 24

01 05 33.00 051 19 48 46 42 00
01 05 34.00 051 52 48 46 47 24
01 05 35.00 052 22 12 46 51 36
01 05 36.00 052 52 12 46 55 12
01 05 37.00 053 24 00 46 59 24

01 05 38.00 053 56 24 47 02 24
01 05 39.00 054 24 36 47 06 00
01 05 40.00 054 57 36 47 09 00
01 05 41.00 055 25 48 47 11 24
01 05 42.00 055 57 36 47 15 00

01 05 43.00 056 28 12 47 18 00
01 05 44.00 057 03 36 47 21 00
01 05 45.00 057 34 48 47 23 24
01 05 46.00 058 07 12 47 25 48
01 05 47.00 058 39 36 47 27 36

01 05 48.00 059 11 24 47 30 00
01 05 49.00 059 42 00 47 30 00
01 05 50.00 060 14 24 47 32 24
01 05 51.00 060 45 36 47 34 48
01 05 52.00 061 18 00 47 35 24

01 05 53.00 061 50 24 47 37 12
01 05 54.00 062 19 12 47 37 12
01 05 55.00 062 49 48 47 38 24
01 05 56.00 063 22 48 47 39 00
01 05 57.00 063 48 00 47 40 12

01 05 58.00 064 28 48 47 39 36
01 05 59.00 064 57 36 47 39 36
01 06 00.00 065 28 12 47 39 36
01 06 01.00 066 03 00 47 40 12
01 06 02.00 066 37 12 47 40 12

01 06 03.00 067 06 36 47 40 12
01 06 04.00 067 33 36 47 39 00
01 06 05.00 068 06 00 47 37 48
01 06 06.00 068 34 12 47 37 12
01 06 07.00 069 10 12 47 36 36

HR MIN SEC AZIMUTH ELEVATION

01 06 08.00 069 39 36 47 34 48
01 06 09.00 070 10 12 47 34 12
01 06 10.00 070 40 12 47 33 36
01 06 11.00 071 09 00 47 30 36
01 06 12.00 071 45 00 47 30 00

01 06 13.00 072 14 24 47 27 36
01 06 14.00 072 42 36 47 25 48
01 06 15.00 073 11 24 47 21 36
01 06 16.00 073 45 00 47 19 48
01 06 17.00 074 13 12 47 18 36

01 06 18.00 074 44 24 47 15 36
01 06 19.00 075 10 48 47 13 12
01 06 20.00 075 41 24 47 09 36
01 06 21.00 076 11 24 47 07 48
01 06 22.00 076 39 00 47 04 48

01 06 23.00 077 09 36 47 00 36
01 06 24.00 077 40 12 46 56 24
01 06 25.00 078 06 00 46 54 00
01 06 26.00 078 34 48 46 50 24
01 06 27.00 079 02 24 46 47 24

01 06 28.00 079 33 00 46 43 12
01 06 29.00 080 01 48 46 39 00
01 06 30.00 080 27 36 46 35 24
01 06 31.00 080 56 24 46 30 00
01 06 32.00 081 25 12 46 25 12

01 06 33.00 081 51 00 46 22 48
01 06 34.00 082 19 48 46 19 48
01 06 35.00 082 45 36 46 13 48
01 06 36.00 083 14 24 46 09 00
01 06 37.00 083 42 36 46 04 12

01 06 38.00 084 06 36 45 59 24
01 06 39.00 084 31 48 45 54 00
01 06 40.00 084 57 36 45 49 48
01 06 41.00 085 23 24 45 44 24
01 06 42.00 085 49 48 45 40 12

01 06 43.00 086 18 00 45 33 00
01 06 44.00 086 42 36 45 27 00
01 06 45.00 086 07 12 45 22 48
01 06 46.00 087 31 48 45 18 36
01 06 47.00 087 58 48 45 13 48

01 06 48.00 088 21 36 45 06 00
01 06 49.00 088 46 12 45 01 12
01 06 50.00 088 12 36 44 54 36
01 06 51.00 089 33 00 44 49 12
01 06 52.00 089 57 00 44 41 24

01 06 53.00 090 21 00 44 36 36
01 06 54.00 090 45 36 44 30 36
01 06 55.00 091 09 00 44 24 00
01 06 56.00 091 33 00 44 18 00
01 06 57.00 091 55 12 44 10 48

01 06 58.00 092 19 12 44 06 00
01 06 59.00 092 46 12 43 59 24
01 07 00.00 093 09 00 43 51 36
01 07 01.00 093 28 48 43 45 36
01 07 02.00 093 49 12 43 37 48

01 07 03.00 094 08 24 43 30 36
01 07 04.00 094 31 12 43 24 36
01 07 05.00 094 51 00 43 16 48
01 07 06.00 095 14 24 43 13 48
01 07 07.00 095 34 12 43 05 24

01 07 08.00 096 01 12 43 00 36
01 07 09.00 096 18 36 42 52 48
01 07 10.00 096 39 36 42 45 36
01 07 11.00 096 59 24 42 39 00
01 07 12.00 097 21 00 42 32 24

01 07 13.00 097 43 48 42 24 36
01 07 14.00 098 01 12 42 18 00
01 07 15.00 098 23 24 42 10 48
01 07 16.00 098 39 36 42 04 12
01 07 17.00 099 00 00 41 56 24

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	07	18.00	099 19 12	41 49 12	01	08	29.00	116 11 24	33 02 24
01	07	19.00	099 36 36	41 38 24	01	08	30.00	116 19 12	32 55 12
01	07	20.00	099 57 00	41 33 00	01	08	31.00	116 30 00	32 51 00
01	07	21.00	100 15 00	41 26 24	01	08	32.00	116 42 36	32 43 12
01	07	22.00	100 34 48	41 18 00	01	08	33.00	116 51 00	32 34 12
01	07	23.00	100 54 00	41 11 24	01	08	34.00	117 01 48	32 27 00
01	07	24.00	101 12 36	41 04 12	01	08	35.00	117 10 12	32 19 48
01	07	25.00	101 30 36	40 58 12	01	08	36.00	117 20 24	32 13 48
01	07	26.00	101 46 48	40 51 36	01	08	37.00	117 30 00	32 07 12
01	07	27.00	102 04 12	40 44 24	01	08	38.00	117 38 24	31 58 12
01	07	28.00	102 22 12	40 35 24	01	08	39.00	117 48 36	31 51 36
01	07	29.00	102 40 48	40 28 48	01	08	40.00	117 57 36	31 44 24
01	07	30.00	102 55 48	40 20 24	01	08	41.00	118 09 00	31 39 00
01	07	31.00	103 15 00	40 11 24	01	08	42.00	118 18 00	31 31 12
01	07	32.00	103 35 24	40 03 36	01	08	43.00	118 25 48	31 24 00
01	07	33.00	103 49 48	39 57 36	01	08	44.00	118 34 12	31 24 00
01	07	34.00	104 07 12	39 50 24	01	08	45.00	118 43 48	31 11 24
01	07	35.00	104 22 48	39 42 36	01	08	46.00	118 53 24	31 04 48
01	07	36.00	104 38 24	39 34 48	01	08	47.00	119 00 36	30 55 48
01	07	37.00	104 56 24	39 28 48	01	08	48.00	119 10 48	30 48 36
01	07	38.00	105 09 36	39 20 24	01	08	49.00	119 19 48	30 40 12
01	07	39.00	105 22 48	39 10 48	01	08	50.00	119 28 48	30 38 24
01	07	40.00	105 43 12	39 04 12	01	08	51.00	119 36 36	30 36 36
01	07	41.00	105 59 24	38 58 48	01	08	52.00	119 46 12	30 24 36
01	07	42.00	106 16 48	38 50 24	01	08	53.00	119 53 24	30 18 00
01	07	43.00	106 31 48	38 43 12	01	08	54.00	120 03 36	30 12 00
01	07	44.00	106 49 12	38 35 24	01	08	55.00	120 09 36	30 03 36
01	07	45.00	107 00 36	38 28 12	01	08	56.00	120 20 24	29 58 12
01	07	46.00	107 13 48	38 20 24	01	08	57.00	120 25 48	29 50 24
01	07	47.00	107 29 24	38 11 24	01	08	58.00	120 40 12	29 42 36
01	07	48.00	107 45 00	38 02 24	01	08	59.00	120 48 00	29 37 48
01	07	49.00	107 58 12	37 57 36	01	09	00.00	120 51 00	29 31 12
01	07	50.00	108 18 00	37 51 36	01	09	01.00	120 59 24	29 25 48
01	07	51.00	108 30 00	37 43 12	01	09	02.00	121 09 00	29 21 36
01	07	52.00	108 43 48	37 34 12	01	09	03.00	121 17 24	29 12 36
01	07	53.00	108 58 12	37 27 00	01	09	04.00	121 21 36	29 04 12
01	07	54.00	109 09 36	37 19 12	01	09	05.00	121 34 12	28 57 36
01	07	55.00	109 23 24	37 11 24	01	09	06.00	121 42 00	28 51 00
01	07	56.00	109 36 36	37 04 12	01	09	07.00	121 43 48	28 42 36
01	07	57.00	109 52 48	36 57 00	01	09	08.00	121 52 48	28 37 48
01	07	58.00	110 04 12	36 49 48	01	09	09.00	122 00 00	28 32 24
01	07	59.00	110 19 12	36 42 00	01	09	10.00	122 09 36	28 26 24
01	08	00.00	110 33 00	36 35 24	01	09	11.00	122 18 36	28 19 48
01	08	01.00	110 47 24	36 27 36	01	09	12.00	122 24 36	28 13 48
01	08	02.00	110 58 48	36 19 48	01	09	13.00	122 31 12	28 07 48
01	08	03.00	111 10 48	36 10 48	01	09	14.00	122 37 48	28 01 12
01	08	04.00	111 21 36	36 03 00	01	09	15.00	122 45 36	27 55 12
01	08	05.00	111 36 00	35 56 24	01	09	16.00	122 51 36	27 48 00
01	08	06.00	111 49 48	35 50 24	01	09	17.00	123 00 00	27 42 36
01	08	07.00	112 02 24	35 43 12	01	09	18.00	123 07 12	27 35 24
01	08	08.00	112 14 24	35 35 24	01	09	19.00	123 13 48	27 28 48
01	08	09.00	112 26 24	35 27 00	01	09	20.00	123 21 36	27 24 00
01	08	10.00	112 37 48	35 19 48	01	09	21.00	123 26 24	27 17 24
01	08	11.00	112 49 48	35 10 48	01	09	22.00	123 34 48	27 10 48
01	08	13.00	113 13 48	34 58 12	01	09	23.00	123 40 48	27 05 24
01	08	14.00	113 26 24	34 51 36	01	09	24.00	123 46 12	26 59 24
01	08	15.00	113 37 48	34 45 00	01	09	25.00	123 54 36	26 52 12
01	08	16.00	113 52 12	34 37 12	01	09	26.00	124 01 48	26 46 48
01	08	17.00	114 04 12	34 28 48	01	09	27.00	124 07 48	26 39 36
01	08	18.00	114 11 24	34 19 48	01	09	28.00	124 12 36	26 34 48
01	08	19.00	114 22 48	34 13 12	01	09	29.00	124 16 12	26 27 00
01	08	20.00	114 31 48	34 05 24	01	09	30.00	124 22 48	26 22 48
01	08	21.00	114 43 48	33 58 48	01	09	31.00	124 36 36	26 17 24
01	08	22.00	114 56 24	33 52 12	01	09	32.00	124 40 48	26 11 24
01	08	23.00	115 07 12	33 46 12	01	09	33.00	124 46 48	26 06 36
01	08	24.00	115 18 00	33 39 00	01	09	34.00	124 52 12	26 00 00
01	08	25.00	115 30 00	33 31 48	01	09	35.00	124 59 24	25 53 24
01	08	26.00	115 40 12	33 24 36	01	09	36.00	125 06 36	25 48 00
01	08	27.00	115 48 36	33 18 00	01	09	37.00	125 12 00	25 42 00
01	08	28.00	115 58 48	33 09 00	01	09	38.00	125 16 48	25 34 48

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	09	39.00	125 22 48	25 30 00	01	10	33.00	130 00 36	20 42 00
01	09	40.00	125 29 24	25 24 00	01	10	34.00	130 04 12	20 36 36
01	09	41.00	125 35 24	25 18 00	01	10	35.00	130 09 00	20 31 12
01	09	42.00	125 42 36	25 12 36	01	10	36.00	130 12 36	20 25 48
01	09	43.00	125 47 24	25 06 36	01	10	37.00	130 16 48	20 21 00
01	09	44.00	125 54 00	25 00 36	01	10	38.00	130 22 48	20 16 48
01	09	45.00	125 59 24	24 54 36	01	10	39.00	130 25 48	20 12 00
01	09	46.00	126 06 00	24 49 48	01	10	40.00	130 30 00	20 07 12
01	09	47.00	126 10 12	24 43 12	01	10	41.00	130 34 48	20 02 24
01	09	48.00	126 16 48	24 39 36	01	10	42.00	130 39 00	19 58 12
01	09	49.00	126 21 36	24 33 00	01	10	43.00	130 42 36	19 52 12
01	09	50.00	126 28 12	24 27 36	01	10	44.00	130 46 12	19 48 00
01	09	51.00	126 34 48	24 22 12	01	10	45.00	130 49 12	19 43 48
01	09	52.00	126 40 12	24 16 12	01	10	46.00	130 54 00	19 39 36
01	09	53.00	126 45 00	24 10 12	01	10	47.00	130 58 12	19 34 12
01	09	54.00	126 50 24	24 04 48	01	10	48.00	131 01 48	19 29 24
01	09	55.00	126 55 12	23 58 12	01	10	49.00	131 05 24	19 24 36
01	09	56.00	127 00 36	23 54 00	01	10	50.00	131 09 36	19 19 48
01	09	57.00	127 07 48	23 49 48	01	10	51.00	131 13 48	19 14 24
01	09	58.00	127 12 00	23 43 12	01	10	52.00	131 16 48	19 09 36
01	09	59.00	127 17 24	23 36 36	01	10	53.00	131 21 36	19 06 00
01	10	00.00	127 22 48	23 32 24	01	10	54.00	131 24 36	19 02 24
01	10	01.00	127 28 12	23 26 24	01	10	55.00	131 29 24	18 57 36
01	10	02.00	127 32 24	23 22 12	01	10	56.00	131 34 12	18 51 36
01	10	03.00	127 39 00	23 18 00	01	10	57.00	131 35 24	18 46 12
01	10	04.00	127 43 48	23 10 48	01	10	58.00	131 40 48	18 41 24
01	10	05.00	127 48 00	23 05 24	01	10	59.00	131 46 12	18 38 24
01	10	06.00	127 52 12	22 59 24	01	11	00.00	131 48 36	18 32 24
01	10	07.00	127 57 00	22 54 00	01	11	01.00	131 50 24	18 27 00
01	10	08.00	128 03 00	22 47 24	01	11	02.00	131 55 12	18 23 24
01	10	09.00	128 10 12	22 43 12	01	11	03.00	131 58 12	18 20 24
01	10	10.00	128 14 24	22 37 48	01	11	04.00	132 01 12	18 15 00
01	10	11.00	128 19 12	22 33 36	01	11	05.00	132 04 48	18 10 48
01	10	12.00	128 22 48	22 27 36	01	11	06.00	132 09 36	18 06 36
01	10	13.00	128 27 36	22 22 12	01	11	07.00	132 13 48	18 01 12
01	10	14.00	128 33 36	22 18 00	01	11	08.00	132 17 24	17 57 36
01	10	15.00	128 38 24	22 14 24	01	11	09.00	132 21 36	17 52 48
01	10	16.00	128 43 12	22 09 00	01	11	10.00	132 24 00	17 49 12
01	10	17.00	128 48 36	22 01 48	01	11	11.00	132 28 12	17 44 24
01	10	18.00	128 52 48	21 58 12	01	11	12.00	132 28 48	17 40 12
01	10	19.00	128 57 36	21 51 36	01	11	13.00	132 34 12	17 36 00
01	10	20.00	129 02 24	21 45 36	01	11	14.00	132 37 12	17 31 12
01	10	21.00	129 06 36	21 42 00	01	11	15.00	132 40 48	17 25 48
01	10	22.00	129 10 48	21 36 36	01	11	16.00	132 43 48	17 22 12
01	10	23.00	129 15 36	21 31 48	01	11	17.00	132 46 48	17 18 00
01	10	24.00	129 21 00	21 25 48	01	11	18.00	132 51 36	17 15 00
01	10	25.00	129 25 48	21 21 00	01	11	19.00	132 55 12	17 11 24
01	10	26.00	129 30 00	21 15 36	01	11	20.00	132 57 00	17 08 24
01	10	27.00	129 33 00	21 10 48	01	11	21.00	133 00 00	17 03 36
01	10	28.00	129 38 24	21 05 24	01	11	22.00	133 06 00	16 58 48
01	10	29.00	129 43 12	21 00 00	01	11	23.00	133 08 24	16 55 48
01	10	30.00	129 47 24	20 56 24	01	11	24.00	133 09 36	16 52 12
01	10	31.00	129 51 36	20 52 12	01	11	25.00	133 11 24	16 46 48
01	10	32.00	129 57 00	20 46 48	01	11	26.00	133 15 00	16 41 24

PATRICK AFB THEOD. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	06	19.00	023 26 24	39 54 36	01	06	27.00	027 00 36	41 49 12
01	06	20.00	023 45 00	41 03 00	01	06	28.00	027 30 00	41 56 24
01	06	21.00	024 18 00	40 54 00	01	06	29.00	027 51 36	42 10 12
01	06	22.00	025 04 48	40 58 12	01	06	30.00	028 12 36	42 16 48
01	06	23.00	025 30 00	41 06 36	01	06	31.00	028 39 36	42 27 36
01	06	24.00	025 49 48	41 16 12	01	06	32.00	029 00 00	42 37 48
01	06	25.00	026 12 36	41 26 24	01	06	33.00	029 34 12	42 49 12
01	06	26.00	026 33 36	41 37 48	01	06	34.00	029 56 24	43 00 00

PATRICK AFB THE00. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	06	35.00	030 16 12	43 06 36	01	07	49.00	068 13 48	49 18 00
01	06	36.00	030 42 36	43 17 24	01	07	50.00	058 41 24	49 15 00
01	06	37.00	031 03 00	43 25 48	01	07	51.00	069 19 12	49 15 00
01	06	38.00	031 30 36	43 35 24	01	07	52.00	069 48 00	49 13 48
01	06	39.00	031 58 12	43 45 00	01	07	53.00	070 21 36	49 12 00
01	06	40.00	032 27 00	43 55 48	01	07	54.00	070 55 12	49 10 48
01	06	41.00	032 49 48	44 04 12	01	07	55.00	071 24 36	49 09 36
01	06	42.00	033 17 24	44 13 48	01	07	56.00	071 52 48	49 06 36
01	06	43.00	033 47 24	44 21 00	01	07	57.00	072 24 00	49 05 24
01	06	44.00	034 15 36	44 30 00	01	07	58.00	072 55 12	49 02 24
01	06	45.00	034 40 48	44 37 48	01	07	59.00	073 31 12	49 00 36
01	06	46.00	035 05 24	44 47 24	01	08	00.00	074 02 24	48 58 12
01	06	47.00	035 34 12	44 59 24	01	08	01.00	074 35 24	48 54 36
01	06	48.00	036 01 12	45 02 24	01	08	02.00	075 07 48	48 52 12
01	06	49.00	036 27 36	45 13 48	01	08	03.00	075 38 24	48 51 36
01	06	50.00	036 48 00	45 22 12	01	08	04.00	076 07 48	48 46 12
01	06	51.00	037 06 00	45 29 24	01	08	05.00	076 37 48	48 42 36
01	06	52.00	037 29 24	45 40 12	01	08	06.00	077 11 24	48 40 48
01	06	53.00	038 03 00	45 48 36	01	08	07.00	077 40 12	48 36 36
01	06	54.00	038 50 24	45 53 24	01	08	08.00	078 07 48	48 32 24
01	06	55.00	039 22 48	46 01 12	01	08	09.00	078 40 48	48 28 48
01	06	56.00	039 45 00	46 07 48	01	08	10.00	079 09 00	48 24 36
01	06	57.00	040 12 36	46 16 48	01	08	11.00	079 39 00	48 21 00
01	06	58.00	040 46 12	46 24 36	01	08	12.00	080 09 00	48 18 00
01	06	59.00	041 17 24	46 32 24	01	08	13.00	080 36 36	48 12 36
01	07	00.00	041 48 36	46 39 00	01	08	14.00	081 04 48	48 09 00
01	07	01.00	042 17 24	46 44 24	01	08	15.00	081 31 12	48 03 36
01	07	02.00	042 46 12	46 52 12	01	08	16.00	082 00 36	48 00 00
01	07	03.00	043 15 00	47 00 36	01	08	17.00	082 30 00	47 54 36
01	07	04.00	043 46 12	47 06 00	01	08	18.00	082 58 12	47 50 24
01	07	05.00	044 16 48	47 14 24	01	08	19.00	083 30 00	47 45 36
01	07	06.00	044 49 48	47 19 12	01	08	20.00	083 57 00	47 42 36
01	07	07.00	045 20 24	47 22 48	01	08	21.00	084 27 00	47 36 36
01	07	08.00	045 46 48	47 31 12	01	08	22.00	084 55 48	47 30 36
01	07	09.00	046 13 48	47 37 12	01	08	23.00	085 21 00	47 24 36
01	07	10.00	046 35 24	47 45 00	01	08	24.00	085 47 24	47 19 48
01	07	11.00	049 07 48	48 06 00	01	08	25.00	086 13 12	47 14 24
01	07	12.00	049 51 00	48 11 24	01	08	26.00	086 40 48	47 09 00
01	07	13.00	050 27 36	48 18 00	01	08	27.00	087 06 36	47 01 12
01	07	14.00	051 00 00	48 19 12	01	08	28.00	087 25 12	46 57 00
01	07	15.00	051 28 48	48 25 12	01	08	29.00	087 57 00	46 51 00
01	07	16.00	052 03 00	48 28 48	01	08	30.00	088 22 48	46 48 36
01	07	17.00	052 45 00	48 34 12	01	08	31.00	088 49 48	46 40 12
01	07	18.00	053 29 24	48 37 12	01	08	32.00	089 17 24	46 32 24
01	07	19.00	053 52 12	48 40 48	01	08	33.00	089 42 36	46 26 24
01	07	20.00	054 27 00	48 45 36	01	08	34.00	090 07 48	46 21 00
01	07	21.00	054 54 36	48 49 12	01	08	35.00	090 34 48	46 14 24
01	07	22.00	055 25 12	48 52 12	01	08	36.00	091 00 36	46 07 48
01	07	23.00	056 06 00	48 55 12	01	08	37.00	091 24 00	46 00 36
01	07	24.00	056 38 24	48 58 12	01	08	38.00	091 49 12	45 54 00
01	07	25.00	057 11 24	49 01 12	01	08	39.00	092 14 24	45 49 12
01	07	26.00	057 46 12	49 03 36	01	08	40.00	092 39 00	45 42 00
01	07	27.00	058 21 00	49 06 36	01	08	41.00	092 57 36	45 35 24
01	07	28.00	058 49 48	49 09 36	01	08	42.00	093 21 36	45 28 12
01	07	29.00	059 24 36	49 12 36	01	08	43.00	093 43 48	45 21 36
01	07	30.00	059 56 24	49 09 00	01	08	44.00	094 09 36	45 15 00
01	07	31.00	060 35 24	49 12 00	01	08	45.00	094 31 48	45 07 48
01	07	32.00	061 06 00	49 13 12	01	08	46.00	094 55 12	45 00 00
01	07	33.00	061 40 12	49 14 24	01	08	47.00	095 16 12	44 54 36
01	07	34.00	062 09 00	49 14 24	01	08	48.00	095 37 48	44 46 12
01	07	35.00	062 42 36	49 16 48	01	08	49.00	096 00 36	44 39 00
01	07	36.00	063 15 00	49 16 48	01	08	50.00	096 23 24	44 32 24
01	07	37.00	063 50 24	49 16 48	01	08	51.00	096 43 48	44 25 12
01	07	38.00	064 24 00	49 18 00	01	08	52.00	097 07 48	44 17 24
01	07	39.00	064 55 48	49 18 00	01	08	53.00	097 32 24	44 09 36
01	07	40.00	065 30 36	49 18 00	01	08	54.00	097 49 48	44 02 24
01	07	41.00	065 57 36	49 18 00	01	08	55.00	098 09 00	43 53 24
01	07	42.00	066 31 12	49 18 00	01	08	56.00	098 31 12	43 47 24
01	07	43.00	067 06 36	49 18 00	01	08	57.00	098 49 12	43 39 00
01	07	44.00	067 42 36	49 18 00	01	08	58.00	099 13 48	43 31 12

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HR	MIN	SEC	AZIMUTH	ELEVATION
01	08	59.00	099 33 00	43 22 12
01	09	00.00	099 49 48	43 17 24
01	09	01.00	100 09 36	43 16 12
01	09	02.00	100 33 36	43 01 48
01	09	03.00	100 52 12	42 54 36
01	09	04.00	101 09 36	42 46 12
01	09	05.00	101 28 12	42 38 24
01	09	06.00	101 48 00	42 30 36
01	09	07.00	102 06 00	42 24 00
01	09	08.00	102 28 12	42 17 24
01	09	09.00	102 46 12	42 11 24
01	09	10.00	103 04 48	42 01 12
01	09	11.00	103 19 48	41 54 36
01	09	12.00	103 40 12	41 45 00
01	09	13.00	104 00 00	41 39 36
01	09	14.00	104 16 12	41 30 00
01	09	15.00	104 34 48	41 22 12
01	09	16.00	104 49 12	41 14 24
01	09	17.00	105 06 00	41 06 00
01	09	18.00	105 22 48	41 00 00
01	09	19.00	105 42 00	40 51 00
01	09	20.00	105 56 24	40 44 24
01	09	21.00	106 12 36	40 34 12
01	09	22.00	106 27 36	40 26 24
01	09	23.00	106 43 12	40 18 00
01	09	24.00	107 01 12	40 10 12
01	09	25.00	107 15 36	40 01 12
01	09	26.00	107 30 00	39 55 12
01	09	27.00	107 48 36	39 45 36
01	09	28.00	108 04 12	39 37 48
01	09	29.00	108 16 12	39 28 48
01	09	30.00	108 30 00	39 21 36
01	09	31.00	108 48 00	39 15 00
01	09	32.00	109 02 24	39 05 24
01	09	33.00	109 18 36	38 58 48
01	09	34.00	109 34 12	38 51 00
01	09	35.00	109 46 12	38 42 36
01	09	36.00	110 00 00	38 34 48
01	09	37.00	110 13 48	38 25 48
01	09	38.00	110 28 48	38 19 12
01	09	39.00	110 41 24	38 10 48
01	09	40.00	110 55 48	38 01 48
01	09	41.00	111 12 00	37 56 24
01	09	42.00	111 24 36	37 49 48
01	09	43.00	111 36 36	37 40 48
01	09	44.00	111 49 48	37 32 24
01	09	45.00	112 04 12	37 24 36
01	09	46.00	112 17 24	37 16 48
01	09	47.00	112 28 12	37 09 00
01	09	48.00	112 41 24	37 01 12
01	09	49.00	112 54 36	36 54 00
01	09	50.00	112 09 00	36 46 48
01	09	51.00	113 19 48	36 38 24
01	09	52.00	113 32 24	36 29 24
01	09	53.00	113 43 12	36 21 36
01	09	54.00	113 56 24	36 13 48
01	09	55.00	114 08 24	36 06 36
01	09	56.00	114 22 12	35 59 24
01	09	57.00	114 32 24	35 52 12
01	09	58.00	114 43 12	35 43 12
01	09	59.00	114 55 12	35 36 00
01	10	00.00	115 08 24	35 28 48
01	10	01.00	115 19 48	35 21 00
01	10	02.00	115 29 24	35 15 00
01	10	03.00	115 39 00	35 05 24
01	10	04.00	115 50 24	34 57 00
01	10	05.00	116 02 24	34 50 24
01	10	06.00	116 14 24	34 42 36
01	10	07.00	116 24 36	34 35 24
01	10	08.00	116 34 48	34 28 48

HR	MIN	SEC	AZIMUTH	ELEVATION
01	10	09.00	116 44 24	34 20 24
01	10	10.00	116 56 24	34 12 00
01	10	11.00	117 06 36	34 05 24
01	10	12.00	117 16 12	33 57 36
01	10	13.00	117 28 48	33 48 36
01	10	14.00	117 40 12	33 43 12
01	10	15.00	117 46 12	33 36 36
01	10	16.00	117 58 48	33 27 36
01	10	17.00	118 08 24	33 20 24
01	10	18.00	118 16 48	33 13 48
01	10	19.00	118 27 36	33 07 48
01	10	20.00	118 37 12	33 00 00
01	10	21.00	118 45 36	32 51 36
01	10	22.00	118 54 36	32 45 36
01	10	23.00	119 04 48	32 38 24
01	10	24.00	119 15 00	32 29 24
01	10	25.00	119 25 12	32 21 36
01	10	26.00	119 34 12	32 16 48
01	10	27.00	119 43 12	32 10 12
01	10	28.00	119 50 24	32 01 48
01	10	29.00	119 58 12	31 54 00
01	10	30.00	120 08 24	31 48 36
01	10	31.00	120 18 00	31 39 36
01	10	32.00	120 25 48	31 33 36
01	10	33.00	120 36 36	31 27 00
01	10	34.00	120 43 48	31 19 48
01	10	35.00	120 51 36	31 11 24
01	10	36.00	121 00 00	31 04 12
01	10	37.00	121 09 36	30 58 48
01	10	38.00	121 18 00	30 52 12
01	10	39.00	121 25 48	30 46 12
01	10	40.00	121 34 12	30 39 00
01	10	41.00	121 42 36	30 31 48
01	10	42.00	121 49 48	30 24 36
01	10	43.00	121 57 00	30 18 00
01	10	44.00	122 07 48	30 10 12
01	10	45.00	122 15 00	30 04 12
01	10	46.00	122 22 12	29 58 12
01	10	47.00	122 30 00	29 52 12
01	10	48.00	122 37 12	29 43 48
01	10	49.00	122 45 00	29 37 12
01	10	50.00	122 51 36	29 31 48
01	10	51.00	122 58 12	29 25 48
01	10	52.00	123 07 12	29 18 36
01	10	53.00	123 15 00	29 13 12
01	10	54.00	123 25 48	29 06 36
01	10	55.00	123 30 00	29 00 00
01	10	56.00	123 38 24	28 53 24
01	10	57.00	123 45 36	28 45 36
01	10	58.00	123 51 00	28 39 36
01	10	59.00	123 57 36	28 33 00
01	11	00.00	124 03 36	28 27 36
01	11	01.00	124 12 36	28 19 48
01	11	02.00	124 25 12	28 15 00
01	11	03.00	124 27 00	28 06 36
01	11	04.00	124 33 00	27 58 48
01	11	05.00	124 39 00	27 52 12
01	11	06.00	124 45 36	27 45 36
01	11	07.00	124 51 00	27 39 36
01	11	08.00	124 58 48	27 33 36
01	11	09.00	125 04 48	27 28 48
01	11	10.00	125 12 36	27 21 36
01	11	11.00	125 18 36	27 16 12
01	11	12.00	125 26 24	27 10 12
01	11	13.00	125 33 36	27 03 36
01	11	14.00	125 38 24	26 58 12
01	11	15.00	125 46 12	26 51 36
01	11	16.00	125 51 36	26 45 36
01	11	17.00	125 57 00	26 39 00
01	11	18.00	126 03 36	26 33 00

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16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	11	19.00	126 08 24	26 27 36	01	12	12.00	130 41 24	21 34 12
01	11	20.00	126 14 24	26 21 00	01	12	13.00	130 45 36	21 30 36
01	11	21.00	126 22 12	26 15 00	01	12	14.00	130 50 24	21 23 24
01	11	22.00	126 28 12	26 09 36	01	12	15.00	130 53 24	21 16 48
01	11	23.00	126 34 12	26 03 00	01	12	16.00	130 28 48	21 12 00
01	11	24.00	126 39 00	25 56 24	01	12	17.00	131 03 36	21 07 12
01	11	25.00	126 46 48	25 51 36	01	12	18.00	131 07 12	21 03 00
01	11	26.00	126 51 36	25 46 48	01	12	19.00	131 10 48	20 58 48
01	11	27.00	126 57 36	25 40 12	01	12	20.00	131 13 48	20 52 48
01	11	28.00	127 03 36	25 33 36	01	12	21.00	131 18 36	20 48 36
01	11	29.00	127 07 12	25 28 12	01	12	22.00	131 21 36	20 43 12
01	11	30.00	127 12 00	25 21 36	01	12	23.00	131 25 48	20 37 48
01	11	31.00	127 18 00	25 16 48	01	12	24.00	131 30 00	20 33 36
01	11	32.00	127 25 48	25 10 48	01	12	25.00	131 35 24	20 28 12
01	11	33.00	127 30 36	25 06 00	01	12	26.00	131 39 00	20 21 36
01	11	34.00	127 37 48	25 00 36	01	12	27.00	131 42 36	20 18 36
01	11	35.00	127 42 36	24 53 24	01	12	28.00	131 48 00	20 14 24
01	11	36.00	127 46 48	24 49 12	01	12	29.00	131 50 24	20 09 00
01	11	37.00	127 53 24	24 42 00	01	12	30.00	131 54 36	20 04 48
01	11	38.00	127 56 24	24 37 48	01	12	31.00	131 59 24	20 00 00
01	11	39.00	128 03 00	24 30 00	01	12	32.00	132 03 36	19 56 24
01	11	40.00	128 07 12	24 25 48	01	12	33.00	132 06 36	19 51 00
01	11	41.00	128 12 00	24 20 24	01	12	34.00	132 10 48	19 45 00
01	11	42.00	128 18 36	24 15 36	01	12	35.00	132 14 24	19 39 36
01	11	43.00	128 25 48	24 10 12	01	12	36.00	132 17 24	19 33 00
01	11	44.00	128 30 36	24 04 12	01	12	37.00	132 21 00	19 30 36
01	11	45.00	128 36 36	23 55 48	01	12	38.00	132 24 00	19 27 00
01	11	46.00	128 39 36	23 51 36	01	12	39.00	132 28 12	19 21 00
01	11	47.00	128 43 48	23 46 12	01	12	40.00	132 32 24	19 16 12
01	11	48.00	128 51 36	23 40 48	01	12	41.00	132 37 12	19 10 48
01	11	49.00	128 56 24	23 35 24	01	12	42.00	132 40 12	19 07 12
01	11	50.00	128 59 24	23 29 24	01	12	43.00	132 43 48	19 03 00
01	11	51.00	129 03 36	23 24 36	01	12	44.00	132 48 00	18 57 36
01	11	52.00	129 07 48	23 19 12	01	12	45.00	132 52 12	18 52 48
01	11	53.00	129 12 36	23 14 24	01	12	46.00	132 54 36	18 48 36
01	11	54.00	129 16 12	23 07 48	01	12	47.00	132 57 00	18 45 00
01	11	55.00	129 19 12	23 01 48	01	12	48.00	133 01 12	18 40 12
01	11	56.00	129 30 00	22 58 48	01	12	49.00	133 04 48	18 34 48
01	11	57.00	129 34 48	22 51 36	01	12	50.00	133 08 24	18 30 00
01	11	58.00	129 38 24	22 46 12	01	12	51.00	133 10 48	18 25 12
01	11	59.00	129 42 36	22 41 24	01	12	52.00	133 16 12	18 21 36
01	12	00.00	129 47 24	22 35 24	01	12	53.00	133 20 24	18 18 36
01	12	01.00	129 52 48	22 30 36	01	12	54.00	133 24 36	18 13 12
01	12	02.00	129 57 36	22 24 36	01	12	55.00	133 27 00	18 10 48
01	12	03.00	130 01 12	22 19 12	01	12	56.00	133 31 12	18 08 24
01	12	04.00	130 06 00	22 14 24	01	12	57.00	133 33 00	18 06 00
01	12	05.00	130 10 12	22 09 36	01	12	58.00	133 42 00	18 04 12
01	12	06.00	130 15 00	22 04 48	01	12	59.00	133 49 48	17 58 48
01	12	07.00	130 18 36	21 59 24	01	13	00.00	133 54 00	17 54 00
01	12	08.00	130 22 48	21 55 12	01	13	01.00	134 00 36	17 51 00
01	12	09.00	130 28 48	21 51 00	01	13	02.00	134 05 24	17 48 36
01	12	10.00	130 34 12	21 43 48	01	13	03.00	134 12 36	17 44 24
01	12	11.00	130 37 12	21 39 00	01	13	04.00	134 19 12	17 39 00

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16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	08	57.00	109 54 36	38 25 24	01	09	06.00	111 57 36	37 16 48
01	08	58.00	110 10 12	38 20 24	01	09	07.00	112 11 24	37 09 00
01	08	59.00	110 24 00	38 13 12	01	09	08.00	112 26 24	37 03 00
01	09	00.00	110 38 24	38 04 48	01	09	09.00	112 37 48	36 55 12
01	09	01.00	110 52 48	37 57 00	01	09	10.00	112 52 12	36 47 24
01	09	02.00	111 04 12	37 48 36	01	09	11.00	113 01 48	36 39 00
01	09	03.00	111 19 48	37 40 12	01	09	12.00	113 15 00	36 31 12
01	09	04.00	111 30 36	37 33 36	01	09	13.00	113 28 48	36 23 24
01	09	05.00	111 45 36	37 25 12	01	09	14.00	113 37 12	36 16 48

PATRICK AFB THE00. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	09	15.00	113 49 48	36 09 36	01	10	25.00	124 27 36	27 57 36
01	09	16.00	114 03 00	36 01 12	01	10	26.00	124 33 36	27 50 24
01	09	17.00	113 15 00	35 54 00	01	10	27.00	124 39 36	27 43 12
01	09	18.00	114 30 00	35 46 48	01	10	28.00	124 48 36	27 37 12
01	09	19.00	114 38 24	35 39 00	01	10	29.00	124 55 12	27 31 12
01	09	20.00	114 51 36	35 30 36	01	10	30.00	125 02 24	27 25 12
01	09	21.00	115 02 24	35 22 48	01	10	31.00	125 08 24	27 19 48
01	09	22.00	115 13 12	35 15 00	01	10	32.00	125 14 24	27 15 00
01	09	23.00	115 24 00	35 09 00	01	10	33.00	125 21 00	27 07 12
01	09	24.00	115 35 24	35 00 36	01	10	34.00	125 25 48	27 00 00
01	09	25.00	115 45 36	34 53 24	01	10	35.00	125 31 48	26 52 48
01	09	26.00	115 56 24	34 45 36	01	10	36.00	125 39 00	26 48 36
01	09	27.00	116 07 12	34 38 24	01	10	37.00	125 45 36	26 42 00
01	09	28.00	116 17 24	34 31 12	01	10	38.00	125 52 48	26 35 24
01	09	29.00	116 30 00	34 22 48	01	10	39.00	125 58 48	26 29 24
01	09	30.00	116 41 24	34 15 00	01	10	40.00	126 04 48	26 24 36
01	09	31.00	116 52 12	34 07 12	01	10	41.00	126 11 24	26 19 12
01	09	32.00	117 03 00	34 00 00	01	10	42.00	126 18 36	26 13 12
01	09	33.00	117 12 00	33 52 48	01	10	43.00	126 24 00	26 08 24
01	09	34.00	117 21 36	33 45 00	01	10	44.00	126 32 24	26 00 36
01	09	35.00	117 31 48	33 38 24	01	10	45.00	126 34 48	25 55 12
01	09	36.00	117 40 12	33 31 12	01	10	46.00	126 40 12	25 48 36
01	09	37.00	117 53 24	33 24 36	01	10	47.00	126 46 12	25 43 12
01	09	38.00	118 01 48	33 16 12	01	10	48.00	126 53 24	25 39 00
01	09	39.00	118 11 24	33 07 48	01	10	49.00	126 57 36	25 30 36
01	09	40.00	118 19 48	33 01 12	01	10	50.00	127 04 12	25 25 48
01	09	41.00	118 31 12	32 56 24	01	10	51.00	127 10 12	25 19 48
01	09	42.00	118 42 00	32 49 12	01	10	52.00	127 14 24	25 13 12
01	09	43.00	118 52 12	32 41 24	01	10	53.00	127 19 12	25 07 12
01	09	44.00	119 00 00	32 32 24	01	10	54.00	127 24 36	25 01 12
01	09	45.00	119 10 12	32 25 48	01	10	55.00	127 31 12	24 55 48
01	09	46.00	119 17 24	32 18 00	01	10	56.00	127 34 48	24 49 12
01	09	47.00	119 27 00	32 10 48	01	10	57.00	127 40 48	24 45 00
01	09	48.00	119 39 00	32 03 36	01	10	58.00	127 46 48	24 39 00
01	09	49.00	119 45 36	31 57 36	01	10	59.00	127 52 48	24 32 24
01	09	50.00	119 54 36	31 49 48	01	11	00.00	127 59 24	24 28 48
01	09	51.00	120 03 36	31 42 00	01	11	01.00	128 04 12	24 22 48
01	09	52.00	120 12 00	31 36 36	01	11	02.00	128 09 36	24 16 12
01	09	53.00	120 17 24	31 30 00	01	11	03.00	128 17 24	24 10 12
01	09	54.00	120 27 36	31 23 24	01	11	04.00	128 24 00	24 06 00
01	09	55.00	120 38 24	31 17 24	01	11	05.00	128 25 48	24 01 48
01	09	56.00	120 46 12	31 09 00	01	11	06.00	128 32 24	23 54 36
01	09	57.00	120 54 36	31 03 36	01	11	07.00	128 36 36	23 49 48
01	09	58.00	121 04 48	30 56 24	01	11	08.00	128 40 12	23 43 12
01	09	59.00	121 11 24	30 48 36	01	11	09.00	128 43 48	23 37 12
01	10	00.00	121 21 00	30 40 48	01	11	10.00	128 49 12	23 30 00
01	10	01.00	121 28 48	30 33 36	01	11	11.00	128 54 36	23 25 12
01	10	02.00	121 37 12	30 27 00	01	11	12.00	128 59 24	23 19 48
01	10	03.00	121 45 00	30 19 46	01	11	13.00	129 04 12	23 14 24
01	10	04.00	121 52 48	30 13 12	01	11	14.00	129 08 24	23 09 36
01	10	05.00	122 00 00	30 06 36	01	11	15.00	129 14 24	23 04 48
01	10	06.00	122 08 24	30 01 12	01	11	16.00	129 19 12	22 59 24
01	10	07.00	122 16 48	29 55 12	01	11	17.00	129 24 00	22 54 36
01	10	08.00	122 24 00	29 47 24	01	11	18.00	129 28 48	22 48 36
01	10	09.00	122 33 00	29 40 48	01	11	19.00	129 33 36	22 42 36
01	10	10.00	122 40 12	29 33 36	01	11	20.00	129 39 36	22 38 24
01	10	11.00	122 49 12	29 27 36	01	11	21.00	129 43 12	22 31 12
01	10	12.00	122 55 12	29 20 24	01	11	22.00	129 47 24	22 27 36
01	10	13.00	123 04 48	29 14 24	01	11	23.00	129 51 00	22 22 12
01	10	14.00	123 12 00	29 06 36	01	11	24.00	129 56 24	22 16 48
01	10	15.00	123 18 00	29 01 12	01	11	25.00	130 02 24	22 12 00
01	10	16.00	123 25 12	28 54 36	01	11	26.00	130 07 48	22 06 36
01	10	17.00	123 31 12	28 48 00	01	11	27.00	130 12 00	22 01 12
01	10	18.00	123 37 48	28 40 48	01	11	28.00	130 17 24	21 55 48
01	10	19.00	123 46 12	28 34 48	01	11	29.00	130 20 24	21 51 36
01	10	20.00	123 53 24	28 28 48	01	11	30.00	130 25 12	21 46 48
01	10	21.00	124 01 48	28 22 48	01	11	31.00	130 28 48	21 40 48
01	10	22.00	124 07 12	28 16 48	01	11	32.00	130 31 48	21 35 24
01	10	23.00	124 14 24	28 08 24	01	11	33.00	130 35 24	21 30 00
01	10	24.00	124 21 36	28 03 00	01	11	34.00	130 39 00	21 25 48

PATRICK AFB THEOD. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	11	35.00	130 43 12	21 20 24	01	12	00.00	132 21 36	19 18 00
01	11	36.00	130 46 48	21 15 36	01	12	01.00	132 27 00	19 12 36
01	11	37.00	130 51 36	21 10 12	01	12	02.00	132 30 00	19 09 00
01	11	38.00	130 57 00	21 04 12	01	12	03.00	132 34 48	19 03 00
01	11	39.00	131 02 24	21 00 00	01	12	04.00	132 37 12	19 00 00
01	11	40.00	131 07 48	20 55 48	01	12	05.00	132 43 12	18 55 48
01	11	41.00	131 13 12	20 51 00	01	12	06.00	132 45 36	18 50 24
01	11	42.00	131 18 00	20 46 48	01	12	07.00	132 51 00	18 46 12
01	11	43.00	131 30 36	20 41 24	01	12	08.00	132 54 00	18 40 12
01	11	44.00	131 27 00	20 37 12	01	12	09.00	132 54 36	18 36 00
01	11	45.00	131 25 48	20 30 36	01	12	10.00	132 55 12	18 33 36
01	11	46.00	131 28 48	20 27 36	01	12	11.00	133 03 00	18 28 12
01	11	47.00	131 36 00	20 22 12	01	12	12.00	133 07 48	18 22 48
01	11	48.00	131 39 00	20 16 48	01	12	13.00	133 10 48	18 19 12
01	11	49.00	131 42 36	20 10 48	01	12	14.00	133 13 48	18 15 00
01	11	50.00	131 45 00	20 06 00	01	12	15.00	133 16 48	18 10 48
01	11	51.00	131 49 48	20 01 48	01	12	16.00	133 18 36	18 07 12
01	11	52.00	131 54 00	19 57 36	01	12	17.00	133 25 48	18 01 48
01	11	53.00	131 57 00	19 54 00	01	12	18.00	133 30 36	17 58 12
01	11	54.00	132 01 48	19 46 48	01	12	19.00	133 31 12	17 53 24
01	11	55.00	132 07 12	19 42 36	01	12	20.00	133 37 48	17 50 24
01	11	56.00	132 10 12	19 36 00	01	12	21.00	133 38 24	17 46 48
01	11	57.00	132 13 48	19 33 00	01	12	22.00	133 41 24	17 42 00
01	11	58.00	132 18 00	19 28 12	01	12	23.00	133 41 24	17 40 12
01	11	59.00	132 20 24	19 21 00	01	12	24.00	133 40 48	17 39 36

PATRICK AFB THEOD. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	56	27.00	229 46 48	20 18 00	02	57	04.00	223 30 36	19 10 48
02	56	28.00	229 13 12	20 18 00	02	57	05.00	223 20 24	19 09 36
02	56	29.00	228 46 12	20 19 12	02	57	06.00	223 12 36	19 07 48
02	56	30.00	228 48 00	20 15 00	02	57	07.00	223 04 12	19 06 00
02	56	31.00	228 43 12	20 15 00	02	57	08.00	222 55 48	19 05 24
02	56	32.00	228 30 00	20 13 12	02	57	09.00	222 46 48	19 04 48
02	56	33.00	228 25 48	20 09 00	02	57	10.00	222 40 12	19 04 12
02	56	34.00	228 16 12	20 07 48	02	57	11.00	222 32 24	19 03 36
02	56	35.00	228 05 24	20 06 00	02	57	12.00	222 19 12	19 01 12
02	56	36.00	227 55 48	20 04 12	02	57	13.00	222 09 00	18 55 48
02	56	37.00	227 44 24	20 02 24	02	57	14.00	222 01 12	18 52 12
02	56	38.00	227 40 48	20 01 48	02	57	15.00	221 55 12	18 50 24
02	56	39.00	227 30 00	20 00 00	02	57	16.00	221 48 36	18 50 24
02	56	40.00	227 21 00	19 56 24	02	57	17.00	221 42 00	18 49 12
02	56	41.00	227 07 12	19 54 36	02	57	18.00	221 35 24	18 48 36
02	56	42.00	226 56 24	19 52 48	02	57	19.00	221 28 12	18 46 48
02	56	43.00	226 46 48	19 51 36	02	57	20.00	221 22 12	18 45 36
02	56	44.00	226 36 36	19 50 24	02	57	21.00	221 16 12	18 45 36
02	56	45.00	226 28 12	19 47 24	02	57	22.00	221 19 12	18 45 36
02	56	46.00	226 17 24	19 45 00	02	57	23.00	221 15 36	18 45 36
02	56	47.00	226 11 24	19 43 12	02	57	24.00	221 08 24	18 45 00
02	56	48.00	225 58 12	19 41 24	02	57	25.00	221 01 48	18 43 48
02	56	49.00	225 49 48	19 40 12	02	57	26.00	220 54 36	18 41 24
02	56	50.00	225 40 48	19 39 00	02	57	27.00	220 49 48	18 39 36
02	56	51.00	225 30 00	19 37 12	02	57	28.00	220 43 48	18 39 00
02	56	52.00	225 22 12	19 35 24	02	57	29.00	220 39 00	18 38 24
02	56	53.00	225 13 48	19 34 12	02	57	30.00	220 31 48	18 35 24
02	56	54.00	225 05 24	19 32 24	02	57	31.00	220 21 00	18 32 24
02	56	55.00	224 56 24	19 30 00	02	57	32.00	220 13 12	18 30 36
02	56	56.00	224 45 36	19 27 36	02	57	33.00	220 04 48	18 30 00
02	56	57.00	224 34 12	19 25 12	02	57	34.00	219 55 12	18 28 12
02	56	58.00	224 24 36	19 24 00	02	57	35.00	219 46 48	18 27 00
02	56	59.00	224 16 48	19 21 36	02	57	36.00	219 36 36	18 25 48
02	57	00.00	224 07 12	19 19 12	02	57	37.00	219 28 12	18 22 12
02	57	01.00	223 59 24	19 17 24	02	57	38.00	219 13 12	18 18 36
02	57	02.00	223 51 00	19 17 24	02	57	39.00	218 57 36	18 15 00
02	57	03.00	223 42 36	19 13 48					

PATRICK AFB THEOD. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	55	00.00	245 54 00	21 40 12
02	55	01.00	245 33 00	21 43 12
02	55	02.00	245 25 12	21 36 00
02	55	03.00	245 09 36	21 33 00
02	55	04.00	245 00 36	21 32 24
02	55	05.00	244 49 48	21 32 24
02	55	06.00	244 39 00	21 31 48
02	55	07.00	244 29 24	21 31 48
02	55	08.00	244 22 48	21 32 24
02	55	09.00	244 00 36	21 32 24
02	55	10.00	243 47 24	21 32 24
02	55	11.00	243 34 48	21 32 24
02	55	12.00	243 24 36	21 31 12
02	55	13.00	243 11 24	21 30 00
02	55	14.00	243 05 24	21 34 48
02	55	15.00	242 54 36	21 31 12
02	55	16.00	242 42 00	21 31 12
02	55	17.00	242 24 36	21 31 12
02	55	18.00	242 11 24	21 31 12
02	55	19.00	241 58 48	21 30 00
02	55	20.00	241 48 36	21 29 24
02	55	21.00	241 38 24	21 29 24
02	55	22.00	241 32 24	21 29 24
02	55	23.00	241 22 48	21 29 24
02	55	24.00	241 09 00	21 28 48
02	55	25.00	240 46 48	21 28 48
02	55	26.00	240 34 12	21 28 48
02	55	27.00	240 22 48	21 28 48
02	55	28.00	240 10 12	21 28 48
02	55	29.00	240 00 00	21 28 12
02	55	33.00	239 18 36	21 25 48
02	55	34.00	239 11 24	21 22 12
02	55	35.00	238 58 12	21 22 12
02	55	36.00	238 42 00	21 22 12
02	55	37.00	238 37 12	21 22 12
02	55	38.00	238 25 48	21 22 12
02	55	39.00	238 17 24	21 22 12
02	55	40.00	238 04 12	21 20 24
02	55	41.00	237 57 00	21 18 00
02	55	42.00	237 43 48	21 16 12
02	55	43.00	237 26 24	21 16 12
02	55	44.00	237 13 48	21 15 36
02	55	45.00	237 09 00	21 15 36
02	55	46.00	237 00 00	21 15 36
02	55	48.00	236 36 00	21 12 00
02	55	49.00	236 27 36	21 11 24
02	55	50.00	236 15 36	21 10 12
02	55	51.00	235 57 36	21 10 12
02	55	52.00	235 43 48	21 10 12
02	55	53.00	235 35 24	21 10 12
02	55	54.00	235 25 48	21 09 36
02	55	55.00	235 14 24	21 09 00
02	55	56.00	235 06 00	21 09 00
02	55	57.00	234 52 12	21 09 00
02	55	58.00	234 39 36	21 09 00
02	55	59.00	234 34 12	21 03 36
02	56	00.00	234 22 12	21 03 00
02	56	01.00	234 15 00	20 58 48
02	56	02.00	234 03 00	20 57 36
02	56	03.00	233 48 00	20 56 24
02	56	04.00	233 35 24	20 57 36
02	56	05.00	233 23 24	20 58 12
02	56	06.00	233 18 36	20 54 00
02	56	07.00	233 10 48	20 48 36
02	56	08.00	232 56 24	20 48 00
02	56	09.00	232 45 36	20 48 00
02	56	10.00	232 29 24	20 47 24
02	56	11.00	232 22 12	20 45 36
02	56	12.00	232 10 12	20 44 24
02	56	13.00	231 57 36	20 43 12

HR	MIN	SEC	AZIMUTH	ELEVATION
02	56	14.00	231 45 36	20 41 24
02	56	15.00	231 31 12	20 40 48
02	56	16.00	231 22 12	20 40 12
02	56	17.00	231 17 24	20 39 36
02	56	18.00	231 13 48	20 36 00
02	56	19.00	230 57 36	20 35 24
02	56	20.00	230 43 48	20 33 00
02	56	21.00	230 31 48	20 31 12
02	56	22.00	230 25 48	20 31 12
02	56	23.00	230 21 00	20 30 00
02	56	24.00	230 10 48	20 28 48
02	56	25.00	229 51 00	20 27 36
02	56	26.00	229 40 48	20 24 00
02	56	27.00	229 28 48	20 20 24
02	56	28.00	229 23 24	20 20 24
02	56	29.00	229 27 36	20 17 24
02	56	30.00	229 03 36	20 16 12
02	56	31.00	228 58 48	20 16 12
02	56	32.00	228 52 12	20 15 36
02	56	33.00	228 31 48	20 12 36
02	56	34.00	228 21 00	20 10 48
02	56	35.00	228 12 00	20 08 24
02	56	36.00	228 02 24	20 06 36
02	56	37.00	227 50 24	20 05 36
02	56	38.00	227 36 00	20 04 48
02	56	39.00	227 26 24	20 03 00
02	56	40.00	227 18 00	20 01 12
02	56	41.00	227 13 12	19 58 12
02	56	42.00	227 08 24	19 55 48
02	56	43.00	227 02 24	19 52 12
02	56	44.00	226 45 00	19 52 12
02	56	45.00	226 35 24	19 50 24
02	56	46.00	226 24 36	19 48 36
02	56	47.00	226 18 36	19 48 00
02	56	48.00	226 07 12	19 47 24
02	56	49.00	225 55 48	19 45 36
02	56	50.00	225 41 24	19 41 24
02	56	51.00	225 34 12	19 39 36
02	56	52.00	225 25 48	19 37 48
02	56	53.00	225 16 48	19 37 12
02	56	54.00	225 10 12	19 36 36
02	56	55.00	225 04 48	19 30 36
02	56	56.00	224 51 36	19 28 48
02	56	57.00	224 37 12	19 28 48
02	56	58.00	224 28 48	19 25 12
02	56	59.00	224 18 00	19 25 12
02	57	00.00	224 08 24	19 24 00
02	57	01.00	224 03 36	19 21 36
02	57	02.00	224 00 36	19 21 00
02	57	03.00	223 51 36	19 20 24
02	57	04.00	223 34 12	19 17 24
02	57	05.00	223 22 12	19 14 24
02	57	06.00	223 19 48	19 07 48
02	57	07.00	223 07 48	19 07 48
02	57	08.00	223 01 48	19 03 36
02	57	09.00	222 52 12	19 00 36
02	57	10.00	222 37 12	18 58 48
02	57	11.00	222 27 00	18 57 00
02	57	12.00	222 20 24	18 56 24
02	57	13.00	222 13 12	18 56 24
02	57	14.00	222 09 36	18 55 48
02	57	15.00	222 04 48	18 52 48
02	57	16.00	221 59 24	18 50 24
02	57	17.00	221 54 36	18 48 36
02	57	18.00	221 52 12	18 47 24
02	57	19.00	221 44 24	18 46 48
02	57	20.00	221 35 24	18 46 48
02	57	21.00	221 30 36	18 46 48
02	57	22.00	221 10 12	18 46 48
02	57	23.00	221 06 36	18 46 48

PATRICK AFB THEOD. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	57	24.00	221 06 00	18 46 48
02	57	25.00	220 57 36	18 46 48
02	57	26.00	220 25 48	18 46 48
02	57	27.00	220 21 00	18 46 48
02	57	28.00	220 21 00	18 46 48
02	57	29.00	220 03 36	18 46 48
02	57	30.00	219 59 24	18 46 12
02	57	31.00	219 59 24	18 46 12
02	57	32.00	219 59 24	18 46 12
02	57	33.00	219 46 12	18 46 12
02	57	34.00	219 25 12	18 46 12
02	57	35.00	219 25 12	18 46 12
02	57	36.00	219 25 12	18 43 12
02	57	37.00	219 25 12	18 43 12
02	57	38.00	219 04 12	18 43 12

HR	MIN	SEC	AZIMUTH	ELEVATION
02	57	39.00	219 02 24	18 43 12
02	57	40.00	218 52 12	18 43 12
02	57	41.00	218 49 48	18 43 12
02	57	42.00	218 40 48	18 43 12
02	57	43.00	218 34 48	18 43 12
02	57	44.00	218 17 24	18 43 12
02	57	45.00	218 03 00	18 43 12
02	57	46.00	217 55 12	18 43 12
02	57	47.00	217 45 36	18 43 12
02	57	48.00	217 42 36	18 43 12
02	57	49.00	217 42 00	18 43 12
02	57	50.00	217 41 24	18 43 12
02	57	51.00	217 39 36	18 43 12
02	57	52.00	217 33 00	18 43 12
02	57	53.00	217 01 48	18 43 12

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	53	43.00	261 16 12	20 06 00
02	53	44.00	261 09 36	20 07 12
02	53	45.00	260 52 48	20 11 24
02	53	46.00	260 36 00	20 13 12
02	53	47.00	260 23 24	20 15 00
02	53	48.00	260 12 00	20 16 12
02	53	49.00	259 59 24	20 18 00
02	53	50.00	259 49 12	20 18 00
02	53	51.00	259 37 48	20 20 24
02	53	52.00	259 24 00	20 21 36
02	53	53.00	259 12 00	20 25 48
02	53	54.00	258 59 24	20 27 00
02	53	55.00	258 47 24	20 29 24
02	53	56.00	258 35 24	20 32 24
02	53	57.00	258 22 48	20 34 12
02	53	58.00	258 13 12	20 34 12
02	53	59.00	258 04 12	20 33 36
02	54	00.00	257 46 12	20 37 12
02	54	01.00	257 33 00	20 39 00
02	54	02.00	257 17 24	20 42 00
02	54	03.00	257 07 48	20 43 12
02	54	04.00	256 55 12	20 44 24
02	54	05.00	256 43 12	20 45 36
02	54	06.00	256 33 36	20 46 12
02	54	07.00	256 19 12	20 47 24
02	54	08.00	256 04 48	20 49 12
02	54	09.00	255 53 24	20 51 36
02	54	10.00	255 41 24	20 52 12
02	54	11.00	255 31 12	20 53 24
02	54	12.00	255 16 48	20 54 36
02	54	13.00	255 04 12	20 55 48
02	54	14.00	254 51 36	20 57 00
02	54	15.00	254 40 48	20 58 12
02	54	16.00	254 28 12	21 00 00
02	54	17.00	254 13 48	21 01 12
02	54	18.00	254 01 48	21 02 24
02	54	19.00	253 52 12	21 03 36
02	54	20.00	253 39 36	21 04 12
02	54	21.00	253 27 00	21 04 48
02	54	22.00	253 13 48	21 06 00
02	54	23.00	253 00 36	21 07 12
02	54	24.00	252 49 48	21 09 00
02	54	25.00	252 36 36	21 09 36
02	54	26.00	252 23 24	21 11 24
02	54	27.00	252 11 24	21 11 24
02	54	28.00	252 01 48	21 11 24
02	54	29.00	251 53 24	21 13 48

HR	MIN	SEC	AZIMUTH	ELEVATION
02	54	30.00	251 42 36	21 15 00
02	54	31.00	251 27 00	21 15 00
02	54	32.00	251 09 36	21 15 00
02	54	33.00	250 57 00	21 15 36
02	54	34.00	250 45 00	21 17 24
02	54	35.00	250 32 24	21 18 00
02	54	36.00	250 19 12	21 18 36
02	54	37.00	250 09 36	21 19 12
02	54	38.00	249 55 48	21 19 48
02	54	39.00	249 44 24	21 20 24
02	54	40.00	249 30 36	21 20 24
02	54	41.00	249 20 24	21 20 24
02	54	42.00	249 09 00	21 21 36
02	54	43.00	248 49 48	21 22 12
02	54	44.00	248 36 36	21 22 48
02	54	45.00	248 19 12	21 23 24
02	54	46.00	248 07 48	21 23 24
02	54	47.00	248 00 36	21 24 00
02	54	48.00	247 53 24	21 24 36
02	54	49.00	247 43 12	21 25 12
02	54	50.00	247 31 48	21 25 48
02	54	51.00	247 19 48	21 25 48
02	54	52.00	247 07 48	21 26 24
02	54	53.00	246 54 36	21 27 00
02	54	54.00	246 41 24	21 26 24
02	54	55.00	246 31 12	21 26 24
02	54	56.00	246 18 00	21 26 24
02	54	57.00	246 06 36	21 26 24
02	54	58.00	245 49 48	21 26 24
02	54	59.00	245 45 00	21 26 24
02	55	00.00	245 39 36	21 27 00
02	55	01.00	245 30 00	21 27 36
02	55	02.00	245 13 48	21 27 36
02	55	03.00	244 55 12	21 28 12
02	55	04.00	244 41 24	21 27 00
02	55	05.00	244 32 24	21 27 36
02	55	06.00	244 20 24	21 28 12
02	55	07.00	244 09 00	21 28 48
02	55	08.00	244 00 36	21 28 48
02	55	09.00	243 48 00	21 26 24
02	55	10.00	243 30 36	21 26 24
02	55	11.00	243 18 36	21 26 24
02	55	12.00	243 06 36	21 26 24
02	55	13.00	242 57 00	21 26 24
02	55	14.00	242 42 36	21 26 24
02	55	15.00	242 31 12	21 26 24
02	55	16.00	242 19 48	21 26 24

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

16 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	55	17.00	242 08 24	21 24 36
02	55	18.00	241 57 00	21 25 48
02	55	19.00	241 44 24	21 25 48
02	55	20.00	241 31 48	21 25 48
02	55	21.00	241 22 12	21 25 48
02	55	22.00	241 13 48	21 25 48
02	55	23.00	240 59 24	21 26 24
02	55	24.00	240 46 48	21 24 00
02	55	25.00	240 34 48	21 24 00
02	55	26.00	240 22 48	21 23 24
02	55	27.00	240 12 36	21 22 12
02	55	28.00	240 00 36	21 22 12
02	55	29.00	239 49 12	21 21 36
02	55	30.00	239 37 12	21 21 36
02	55	31.00	239 24 36	21 19 12
02	55	32.00	239 14 24	21 19 12
02	55	33.00	239 03 36	21 18 00
02	55	34.00	238 52 12	21 18 00
02	55	35.00	238 40 12	21 17 24
02	55	36.00	238 27 00	21 16 48
02	55	37.00	238 15 36	21 16 12
02	55	38.00	238 07 12	21 15 36
02	55	39.00	237 54 36	21 15 00
02	55	40.00	237 43 48	21 13 48
02	55	41.00	237 33 00	21 13 12
02	55	42.00	237 19 48	21 12 00
02	55	43.00	237 10 12	21 10 48
02	55	44.00	237 00 36	21 10 12
02	55	45.00	236 47 24	21 09 36
02	55	46.00	236 36 00	21 09 00
02	55	47.00	236 24 36	21 07 12
02	55	48.00	236 14 24	21 03 36
02	55	49.00	236 04 12	21 03 00
02	55	50.00	235 52 48	21 03 00
02	55	51.00	235 41 24	21 03 00
02	55	52.00	235 31 48	21 02 24
02	55	53.00	235 18 00	21 00 36
02	55	54.00	235 09 00	21 00 00
02	55	55.00	234 58 12	20 58 48
02	55	56.00	234 46 48	20 57 36
02	55	57.00	234 36 00	20 56 24
02	55	58.00	234 23 24	20 55 48
02	55	59.00	234 13 48	20 54 36
02	56	00.00	234 07 12	20 53 24
02	56	01.00	233 58 48	20 50 24
02	56	02.00	233 44 24	20 49 48
02	56	03.00	233 31 12	20 49 12
02	56	04.00	233 20 24	20 48 00
02	56	05.00	233 07 48	20 47 24
02	56	06.00	232 57 36	20 46 12
02	56	07.00	232 46 12	20 45 00
02	56	08.00	232 33 36	20 43 12
02	56	09.00	232 25 48	20 42 00
02	56	10.00	232 15 36	20 40 48
02	56	11.00	232 05 24	20 39 36
02	56	12.00	231 55 48	20 37 48
02	56	13.00	231 45 00	20 34 12
02	56	14.00	231 34 12	20 34 12
02	56	15.00	231 26 24	20 34 12
02	56	16.00	231 13 48	20 31 48
02	56	17.00	231 03 00	20 30 36
02	56	18.00	230 52 48	20 30 00
02	56	19.00	230 42 36	20 28 48
02	56	20.00	230 32 24	20 27 36
02	56	21.00	230 21 36	20 26 24
02	56	22.00	230 13 12	20 24 36
02	56	23.00	230 01 48	20 23 24
02	56	24.00	229 51 36	20 22 12
02	56	25.00	229 42 00	20 21 00
02	56	26.00	229 31 12	20 19 48

HR	MIN	SEC	AZIMUTH	ELEVATION
02	56	27.00	229 22 12	20 19 12
02	56	28.00	229 09 36	20 17 24
02	56	29.00	229 01 12	20 15 00
02	56	30.00	228 51 00	20 13 12
02	56	31.00	228 43 12	20 12 00
02	56	32.00	228 30 36	20 10 12
02	56	33.00	228 20 24	20 07 48
02	56	34.00	228 12 00	20 06 36
02	56	35.00	228 01 48	20 03 36
02	56	36.00	227 51 00	20 01 48
02	56	37.00	227 41 24	20 00 36
02	56	38.00	227 34 12	19 58 48
02	56	39.00	227 28 48	19 57 00
02	56	40.00	227 22 12	19 54 36
02	56	41.00	227 03 00	19 52 48
02	56	42.00	226 52 48	19 51 00
02	56	43.00	226 43 12	19 49 48
02	56	44.00	226 31 48	19 48 00
02	56	45.00	226 22 12	19 47 24
02	56	46.00	226 15 36	19 43 48
02	56	47.00	226 06 36	19 40 48
02	56	48.00	225 58 12	19 39 36
02	56	49.00	225 47 24	19 38 24
02	56	50.00	225 37 48	19 37 12
02	56	51.00	225 27 36	19 34 48
02	56	52.00	225 17 24	19 33 00
02	56	53.00	225 09 00	19 31 48
02	56	54.00	225 00 36	19 30 36
02	56	55.00	224 49 12	19 27 36
02	56	56.00	224 39 36	19 25 48
02	56	57.00	224 30 36	19 24 00
02	56	58.00	224 22 48	19 21 36
02	56	59.00	224 12 36	19 19 12
02	57	00.00	224 03 36	19 17 24
02	57	01.00	223 52 48	19 16 12
02	57	02.00	223 42 36	19 13 48
02	57	03.00	223 36 00	19 10 48
02	57	04.00	223 27 00	19 09 00
02	57	05.00	223 19 12	19 06 00
02	57	06.00	223 09 00	19 05 24
02	57	07.00	223 00 36	19 03 00
02	57	08.00	222 54 00	18 59 24
02	57	09.00	222 48 36	18 58 12
02	57	10.00	222 42 36	18 55 12
02	57	11.00	222 37 12	18 51 36
02	57	12.00	222 33 00	18 49 48
02	57	13.00	222 18 36	18 46 48
02	57	14.00	221 51 00	18 45 36
02	57	15.00	221 48 00	18 44 24
02	57	16.00	221 39 00	18 42 36
02	57	17.00	221 28 12	18 41 24
02	57	18.00	221 19 48	18 40 12
02	57	19.00	221 10 48	18 38 24
02	57	20.00	221 03 36	18 36 00
02	57	21.00	220 49 12	18 34 12
02	57	22.00	220 33 00	18 32 24
02	57	23.00	220 19 48	18 31 12
02	57	24.00	220 11 24	18 30 00
02	57	25.00	220 00 00	18 28 48
02	57	26.00	219 42 00	18 27 36
02	57	27.00	219 25 48	18 26 24
02	57	28.00	219 05 24	18 25 12
02	57	29.00	218 48 00	18 23 24
02	57	30.00	218 32 24	18 22 48
02	57	31.00	218 07 48	18 21 36
02	57	32.00	217 52 12	18 20 24
02	57	33.00	217 40 48	18 18 00
02	57	34.00	217 27 36	18 16 12
02	57	35.00	217 23 24	18 14 24
02	57	36.00	217 23 24	18 13 48

EDWARDS AFB THEOD. STA. 9.

LAT. 34 56 43 N

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HR MIN SEC AZIMUTH ELEVATION

03 28 08.00 334 44 34 23 22 44
 03 28 09.00 334 45 18 23 33 36
 03 28 10.00 334 46 58 23 45 43
 03 28 11.00 334 48 18 23 56 20
 03 28 12.00 334 50 24 24 09 32

03 28 13.00 334 52 48 24 21 54
 03 28 14.00 334 52 12 24 31 30
 03 28 15.00 334 53 45 24 44 20
 03 28 16.00 334 55 44 24 54 39
 03 28 17.00 334 57 00 25 07 12

03 28 18.00 334 58 48 25 19 15
 03 28 19.00 335 00 50 25 32 13
 03 28 20.00 335 02 45 25 44 16
 03 28 21.00 335 03 36 25 56 27
 03 28 22.00 335 05 24 26 09 21

03 28 23.00 335 07 40 26 17 24
 03 28 24.00 335 10 12 26 31 44
 03 28 25.00 335 11 24 26 47 31
 03 28 26.00 335 12 36 27 00 18
 03 28 27.00 335 14 24 27 11 20

03 28 28.00 335 15 43 27 24 00
 03 28 29.00 335 18 00 27 38 13
 03 28 30.00 335 19 15 27 51 00
 03 28 31.00 335 21 18 28 04 48
 03 28 32.00 335 22 55 28 16 48

03 28 33.00 335 24 36 28 30 39
 03 28 34.00 335 27 00 28 43 48
 03 28 35.00 335 29 52 28 58 12
 03 28 36.00 335 35 42 29 10 44
 03 28 37.00 335 31 30 29 23 45

03 28 38.00 335 34 30 29 39 36
 03 28 39.00 335 35 06 29 53 24
 03 28 40.00 335 39 10 30 05 27
 03 28 41.00 335 39 36 30 21 32
 03 28 42.00 335 41 52 30 36 36

03 28 43.00 335 45 39 30 49 08
 03 28 44.00 335 47 24 31 06 00
 03 28 45.00 335 51 00 31 21 36
 03 28 46.00 335 51 54 31 32 24
 03 28 47.00 335 55 19 31 50 20

03 28 48.00 335 56 20 32 03 36
 03 28 49.00 335 58 12 32 19 48
 03 28 50.00 336 00 00 32 34 37
 03 28 51.00 336 02 24 32 49 44
 03 28 52.00 336 04 15 33 03 18

03 28 53.00 336 06 54 33 19 12
 03 28 54.00 336 09 00 33 34 12
 03 28 55.00 336 11 06 33 49 44
 03 28 56.00 336 12 54 34 07 12
 03 28 57.00 336 16 15 34 25 08

03 28 58.00 336 19 04 34 39 00
 03 28 59.00 336 22 08 34 55 12
 03 29 00.00 336 25 44 35 11 52
 03 29 01.00 336 28 12 35 27 00
 03 29 02.00 336 29 56 35 40 12

03 29 03.00 336 32 49 36 01 12
 03 29 04.00 336 35 24 36 17 24
 03 29 05.00 336 36 28 36 34 15
 03 29 06.00 336 40 22 36 49 12
 03 29 07.00 336 43 04 37 08 24

HR MIN SEC AZIMUTH ELEVATION

03 29 08.00 336 47 20 37 27 03
 03 29 09.00 336 49 48 37 43 08
 03 29 10.00 336 52 30 38 01 12
 03 29 11.00 336 55 44 38 17 16
 03 29 12.00 336 58 19 38 36 03

03 29 13.00 337 01 55 38 54 18
 03 29 14.00 337 05 31 39 12 36
 03 29 15.00 337 08 24 39 31 44
 03 29 16.00 337 10 48 39 48 39
 03 29 17.00 337 13 12 40 09 00

03 29 18.00 337 15 36 40 24 36
 03 29 19.00 337 21 00 40 45 00
 03 29 20.00 337 25 55 41 04 15
 03 29 21.00 337 28 55 41 23 24
 03 29 22.00 337 32 31 41 43 04

03 29 23.00 337 36 03 41 59 24
 03 29 24.00 337 40 12 42 20 45
 03 29 25.00 337 46 30 42 41 24
 03 29 26.00 337 48 00 42 59 27
 03 29 27.00 337 52 30 43 20 06

03 29 28.00 337 56 31 43 38 42
 03 29 29.00 337 59 56 43 59 42
 03 29 30.00 338 04 12 44 18 39
 03 29 31.00 338 08 06 44 39 14
 03 29 32.00 338 12 36 45 00 03

03 29 33.00 338 16 48 45 19 48
 03 29 34.00 338 23 09 45 40 51
 03 29 35.00 338 25 08 46 02 24
 03 29 36.00 338 31 55 46 24 32
 03 29 37.00 338 35 24 46 47 24

03 29 38.00 338 42 00 47 06 46
 03 29 39.00 338 45 54 47 28 44
 03 29 40.00 338 51 00 47 49 12
 03 29 41.00 338 56 24 48 12 00
 03 29 42.00 339 02 42 48 33 32

03 29 43.00 339 07 08 48 54 00
 03 29 44.00 339 12 36 49 18 00
 03 29 45.00 339 18 18 49 40 12
 03 29 46.00 339 24 10 50 04 12
 03 29 47.00 339 30 18 50 25 12

03 29 48.00 339 36 54 50 46 48
 03 29 49.00 339 44 24 51 10 58
 03 29 50.00 339 47 24 51 33 50
 03 29 51.00 339 54 28 51 54 00
 03 29 52.00 339 59 56 52 20 24

03 29 53.00 340 09 07 52 44 27
 03 29 54.00 340 15 57 53 09 00
 03 29 55.00 340 21 36 53 30 36
 03 29 56.00 340 30 18 53 54 39
 03 29 57.00 340 36 13 54 19 44

03 29 58.00 340 46 12 54 44 09
 03 29 59.00 340 50 45 55 06 54
 03 30 00.00 341 01 44 55 32 34
 03 30 01.00 341 09 21 55 57 36
 03 30 02.00 341 19 08 56 22 04

03 30 03.00 341 26 06 56 46 12
 03 30 04.00 341 36 00 57 10 12
 03 30 05.00 341 45 18 57 35 38
 03 30 06.00 341 54 43 58 04 08
 03 30 07.00 342 03 36 58 25 55

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HR MIN SEC AZIMUTH ELEVATION

03 30 08.00 342 14 45 58 53 24
 03 30 09.00 342 24 36 59 17 24
 03 30 10.00 342 36 00 59 43 48
 03 30 11.00 342 46 01 60 09 03
 03 30 12.00 342 56 24 60 37 08

03 30 13.00 343 10 55 61 01 12
 03 30 14.00 343 22 33 61 28 26
 03 30 15.00 343 30 43 61 54 36
 03 30 16.00 343 45 50 62 20 24
 03 30 17.00 344 03 00 62 49 04

03 30 18.00 344 15 36 63 13 08
 03 30 19.00 344 30 00 63 39 43
 03 30 20.00 344 44 45 64 07 01
 03 30 21.00 345 03 39 64 33 32
 03 30 22.00 345 16 48 65 00 39

03 30 23.00 345 35 24 65 27 36
 03 30 24.00 345 53 20 65 54 36
 03 30 25.00 346 12 36 66 22 48
 03 30 26.00 346 28 12 66 49 08
 03 30 27.00 346 46 48 67 16 12

03 30 28.00 347 08 24 67 43 12
 03 30 29.00 347 31 15 68 15 00
 03 30 30.00 347 47 38 68 36 14
 03 30 31.00 348 16 15 69 07 08
 03 30 32.00 348 39 00 69 33 00

03 30 33.00 349 05 45 70 02 31
 03 30 34.00 349 30 50 70 30 00
 03 30 35.00 349 57 00 70 58 15
 03 30 36.00 350 34 12 71 23 52
 03 30 37.00 350 59 24 71 49 12

03 30 38.00 351 30 54 72 21 00
 03 30 39.00 352 04 04 72 47 24
 03 30 40.00 352 51 18 73 17 24
 03 30 41.00 353 27 03 73 44 16
 03 30 42.00 354 05 27 74 09 00

03 30 43.00 354 48 54 74 36 57
 03 30 44.00 355 33 18 75 01 48
 03 30 45.00 356 23 06 75 31 08
 03 30 46.00 357 10 37 75 57 21
 03 30 47.00 358 01 48 76 25 12

03 30 48.00 359 03 39 76 51 36
 03 30 49.00 000 06 32 77 17 24
 03 30 50.00 001 16 26 77 42 00
 03 30 51.00 002 35 24 78 07 58
 03 30 52.00 003 46 51 78 37 15

03 30 53.00 005 01 04 78 58 22
 03 30 54.00 006 39 36 79 24 36
 03 30 55.00 008 21 36 79 52 01
 03 30 56.00 010 07 12 80 15 39
 03 30 57.00 011 44 24 80 38 56

03 30 58.00 013 52 12 80 59 27
 03 30 59.00 016 17 24 81 20 56
 03 31 00.00 018 51 00 81 43 48
 03 31 01.00 021 03 54 82 00 36
 03 31 02.00 023 34 48 82 19 19

03 31 03.00 026 41 42 82 37 12
 03 31 04.00 030 04 44 82 54 00
 03 31 05.00 033 37 48 83 07 12
 03 31 06.00 037 29 24 83 22 48
 03 31 07.00 041 26 24 83 36 36

03 31 08.00 044 53 56 83 42 36
 03 31 09.00 050 48 36 83 49 15
 03 31 10.00 055 00 00 83 53 49
 03 31 11.00 059 15 46 83 58 12
 03 31 12.00 064 28 01 83 59 52

03 31 13.00 068 55 40 83 56 24
 03 31 14.00 073 36 07 83 52 44
 03 31 15.00 078 02 34 83 44 24
 03 31 16.00 081 52 22 83 35 20
 03 31 17.00 085 54 32 83 21 36

HR MIN SEC AZIMUTH ELEVATION

03 31 18.00 089 51 46 83 06 03
 03 31 19.00 093 23 20 82 52 44
 03 31 20.00 097 29 20 82 44 06
 03 31 21.00 099 39 54 82 27 46
 03 31 22.00 101 37 48 82 01 37

03 31 23.00 104 20 24 81 45 36
 03 31 24.00 107 20 06 81 30 00
 03 31 25.00 109 21 43 81 12 00
 03 31 26.00 111 14 24 80 40 44
 03 31 27.00 113 18 00 80 25 26

03 31 28.00 115 06 00 80 02 24
 03 31 29.00 116 40 08 79 40 48
 03 31 30.00 117 35 34 79 13 44
 03 31 31.00 119 16 12 78 51 00
 03 31 32.00 120 42 46 78 30 57

03 31 33.00 121 54 25 78 05 24
 03 31 34.00 122 57 50 77 38 45
 03 31 35.00 124 07 55 77 16 48
 03 31 36.00 125 06 32 76 51 00
 03 31 37.00 125 50 49 76 27 03

03 31 38.00 126 42 00 76 01 01
 03 31 39.00 127 35 56 75 39 46
 03 31 40.00 128 29 24 75 16 51
 03 31 41.00 128 58 08 74 53 24
 03 31 42.00 129 39 32 74 24 00

03 31 43.00 130 26 38 74 03 36
 03 31 44.00 130 50 24 73 39 36
 03 31 45.00 131 29 09 73 14 24
 03 31 46.00 132 01 08 72 49 44
 03 31 47.00 132 34 58 72 22 48

03 31 48.00 133 00 46 72 01 30
 03 31 49.00 133 32 49 71 36 00
 03 31 50.00 133 52 08 71 12 54
 03 31 51.00 134 20 24 70 48 46
 03 31 52.00 134 43 12 70 25 08

03 31 53.00 135 04 08 69 59 56
 03 31 54.00 135 30 18 69 36 00
 03 31 55.00 135 48 39 69 12 36
 03 31 56.00 136 14 24 68 50 09
 03 31 57.00 136 27 36 68 24 32

03 31 58.00 136 47 42 68 03 03
 03 31 59.00 137 15 14 67 44 16
 03 32 00.00 137 19 44 67 19 48
 03 32 01.00 137 41 24 66 55 48
 03 32 02.00 137 55 58 66 31 12

03 32 03.00 138 09 39 66 07 22
 03 32 04.00 138 27 50 65 47 20
 03 32 05.00 138 43 15 65 24 28
 03 32 06.00 138 55 48 65 01 12
 03 32 07.00 139 10 48 64 38 56

03 32 08.00 139 21 07 64 17 27
 03 32 09.00 139 33 00 63 55 48
 03 32 10.00 139 46 40 63 34 44
 03 32 11.00 139 58 48 63 12 39
 03 32 12.00 140 12 07 62 50 42

03 32 13.00 140 22 44 62 29 56
 03 32 14.00 140 30 54 62 08 24
 03 32 15.00 140 44 24 61 48 03
 03 32 16.00 140 54 00 61 24 36
 03 32 17.00 141 01 30 61 02 52

03 32 18.00 141 09 36 60 42 36
 03 32 19.00 141 21 39 60 22 12
 03 32 20.00 141 27 00 60 01 48
 03 32 21.00 141 39 36 59 42 28
 03 32 22.00 141 47 20 59 22 04

03 32 23.00 141 55 12 59 01 12
 03 32 24.00 142 04 19 58 41 24
 03 32 25.00 142 05 42 58 16 48
 03 32 26.00 142 20 52 58 03 00
 03 32 27.00 142 28 48 57 41 24

EDWARDS AFB THEOD. STA. 9.

LAT. 34 56 43 N

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HR	MIN	SEC	AZIMUTH	ELEVATION
03	32	28.00	142 32 16	57 22 12
03	32	29.00	142 40 55	57 04 01
03	32	30.00	142 47 24	56 44 56
03	32	31.00	142 55 12	56 26 24
03	32	32.00	143 00 43	56 06 00
03	32	33.00	143 07 44	55 47 13
03	32	34.00	143 13 40	55 30 32
03	32	35.00	143 19 48	55 10 48
03	32	36.00	143 24 54	54 51 54
03	32	37.00	143 33 00	54 34 30
03	32	38.00	143 39 57	54 16 30
03	32	39.00	143 43 40	53 56 31
03	32	40.00	143 48 00	53 39 36
03	32	41.00	143 53 42	53 24 00
03	32	42.00	144 00 39	53 04 44
03	32	43.00	144 04 12	52 46 12
03	32	44.00	144 09 00	52 28 33
03	32	45.00	144 15 36	52 13 08
03	32	46.00	144 21 00	51 54 32
03	32	47.00	144 26 06	51 39 00
03	32	48.00	144 27 54	51 21 03
03	32	49.00	144 35 34	51 06 00
03	32	50.00	144 37 12	50 48 39
03	32	51.00	144 43 08	50 34 08
03	32	52.00	144 46 44	50 16 15
03	32	53.00	144 52 30	49 58 58
03	32	54.00	144 54 00	49 42 39
03	32	55.00	144 59 20	49 26 16
03	32	56.00	145 04 12	49 11 42
03	32	57.00	145 07 48	48 55 12
03	32	58.00	145 09 00	48 38 49
03	32	59.00	145 13 48	48 23 24
03	33	00.00	145 20 24	48 09 00
03	33	01.00	145 23 42	47 52 55
03	33	02.00	145 27 00	47 36 00
03	33	03.00	145 28 58	47 22 08
03	33	04.00	145 36 36	47 07 58
03	33	05.00	145 37 08	46 52 48
03	33	06.00	145 39 54	46 37 44
03	33	07.00	145 47 24	46 22 48
03	33	08.00	145 52 04	46 09 00
03	33	09.00	145 52 12	45 55 48
03	33	10.00	145 52 48	45 40 04
03	33	11.00	145 56 45	45 26 13
03	33	12.00	146 01 30	45 11 20
03	33	13.00	146 03 00	44 57 03
03	33	14.00	146 06 18	44 44 20
03	33	15.00	146 07 58	44 28 48
03	33	16.00	146 11 13	44 15 00
03	33	17.00	146 15 14	44 02 09
03	33	18.00	146 17 24	43 48 00
03	33	19.00	146 18 36	43 34 22
03	33	20.00	146 22 15	43 21 00
03	33	21.00	146 25 30	43 08 24
03	33	22.00	146 28 22	42 54 46
03	33	23.00	146 29 49	42 42 36
03	33	24.00	146 32 49	42 29 06
03	33	25.00	146 34 48	42 15 00
03	33	26.00	146 37 12	42 02 24
03	33	27.00	146 41 27	41 50 24
03	33	28.00	146 43 12	41 36 36
03	33	29.00	146 45 36	41 24 36
03	33	30.00	146 47 24	41 12 00
03	33	31.00	146 49 12	40 58 55
03	33	32.00	146 53 27	40 47 34
03	33	33.00	146 54 32	40 35 34
03	33	34.00	146 58 12	40 22 48
03	33	35.00	146 59 24	40 08 56
03	33	36.00	147 01 22	39 58 15
03	33	37.00	147 03 54	39 46 04

HR	MIN	SEC	AZIMUTH	ELEVATION
03	33	38.00	147 05 20	39 35 24
03	33	39.00	147 09 36	39 22 48
03	33	40.00	147 09 36	39 10 58
03	33	41.00	147 10 48	39 00 36
03	33	42.00	147 13 55	38 48 00
03	33	43.00	147 15 28	38 37 44
03	33	44.00	147 17 24	38 24 46
03	33	45.00	147 19 37	38 14 13
03	33	46.00	147 22 12	38 03 07
03	33	47.00	147 22 37	37 51 00
03	33	48.00	147 24 46	37 41 24
03	33	49.00	147 28 12	37 29 24
03	33	50.00	147 28 48	37 18 32
03	33	51.00	147 29 42	37 07 58
03	33	52.00	147 32 42	36 57 28
03	33	53.00	147 33 36	36 46 12
03	33	54.00	147 34 30	36 35 20
03	33	55.00	147 37 12	36 26 16
03	33	56.00	147 39 25	36 14 38
03	33	57.00	147 41 24	36 04 51
03	33	58.00	147 43 30	35 54 00
03	33	59.00	147 45 03	35 43 12
03	34	00.00	147 46 44	35 33 00
03	34	01.00	147 47 42	35 23 24
03	34	02.00	147 49 40	35 13 19
03	34	03.00	147 52 40	35 01 51
03	34	04.00	147 54 00	34 51 36
03	34	05.00	147 54 18	34 41 24
03	34	06.00	147 55 51	34 33 36
03	34	07.00	147 57 18	34 24 00
03	34	08.00	147 58 22	34 13 48
03	34	09.00	148 00 00	34 03 03
03	34	10.00	148 02 42	33 53 38
03	34	11.00	148 03 54	33 44 06
03	34	12.00	148 05 24	33 33 36
03	34	13.00	148 07 58	33 25 30
03	34	14.00	148 08 06	33 16 15
03	34	15.00	148 09 00	33 05 38
03	34	16.00	148 10 12	32 57 03
03	34	17.00	148 12 18	32 48 00
03	34	18.00	148 13 08	32 39 32
03	34	19.00	148 14 52	32 30 00
03	34	20.00	148 15 36	32 21 25
03	34	21.00	148 16 12	32 10 58
03	34	22.00	148 19 12	32 02 16
03	34	23.00	148 20 24	31 54 10
03	34	24.00	148 21 36	31 43 44
03	34	25.00	148 22 30	31 35 31
03	34	26.00	148 23 24	31 27 36
03	34	27.00	148 25 44	31 20 34
03	34	28.00	148 27 00	31 11 24
03	34	29.00	148 27 00	31 00 03
03	34	30.00	148 28 37	30 53 13
03	34	31.00	148 29 56	30 43 15
03	34	32.00	148 31 08	30 34 48
03	34	33.00	148 32 20	30 26 52
03	34	34.00	148 33 54	30 20 09
03	34	35.00	148 34 48	30 10 51
03	34	36.00	148 36 00	30 02 20
03	34	37.00	148 36 39	29 54 28
03	34	38.00	148 38 06	29 46 12
03	34	39.00	148 39 00	29 38 38
03	34	40.00	148 40 22	29 28 48
03	34	41.00	148 42 03	29 21 32
03	34	42.00	148 43 08	29 13 48
03	34	43.00	148 43 40	29 05 24
03	34	44.00	148 44 56	28 58 15
03	34	45.00	148 46 40	28 49 48
03	34	46.00	148 46 44	28 41 56
03	34	47.00	148 48 36	28 34 51

EDWARDS AFB THEOD. STA. 9. LAT. 34 56 43 N LONG. 242 05 14 E HT 0785 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
03	34	48.00	148 49 48	28 26 06	03	35	58.00	149 47 20	20 48 00
03	34	49.00	148 51 00	28 18 36	03	35	59.00	149 48 00	20 43 04
03	34	50.00	148 51 18	28 12 00	03	36	00.00	149 48 18	20 37 48
03	34	51.00	148 52 48	28 04 48	03	36	01.00	149 49 12	20 32 02
03	34	52.00	148 52 51	27 55 15	03	36	02.00	149 50 06	20 27 00
03	34	53.00	148 53 49	27 48 43	03	36	03.00	149 50 24	20 21 36
03	34	54.00	148 55 12	27 40 48	03	36	04.00	149 51 00	20 15 36
03	34	55.00	148 55 48	27 34 08	03	36	05.00	149 52 12	20 10 12
03	34	56.00	148 57 25	27 25 48	03	36	06.00	149 52 51	20 04 15
03	34	57.00	148 58 12	27 18 36	03	36	07.00	149 53 42	19 59 34
03	34	58.00	148 59 56	27 11 24	03	36	08.00	149 53 42	19 54 36
03	34	59.00	149 00 32	27 04 04	03	36	09.00	149 54 39	19 48 18
03	35	00.00	149 01 55	26 56 02	03	36	10.00	149 56 06	19 42 00
03	35	01.00	149 02 24	26 49 08	03	36	11.00	149 57 00	19 36 36
03	35	02.00	149 03 36	26 42 00	03	36	12.00	149 56 24	19 33 00
03	35	03.00	149 03 54	26 35 20	03	36	13.00	149 56 24	19 27 00
03	35	04.00	149 05 24	26 29 06	03	36	14.00	149 57 00	19 21 46
03	35	05.00	149 07 12	26 20 42	03	36	15.00	149 57 43	19 15 39
03	35	06.00	149 08 16	26 13 12	03	36	16.00	149 58 40	19 11 42
03	35	07.00	149 08 24	26 06 36	03	36	17.00	149 58 48	19 06 36
03	35	08.00	149 08 24	25 58 12	03	36	18.00	150 00 18	19 00 36
03	35	09.00	149 09 54	25 52 33	03	36	19.00	150 01 12	18 56 24
03	35	10.00	149 11 20	25 45 36	03	36	20.00	150 00 54	18 51 36
03	35	11.00	149 12 00	25 40 12	03	36	21.00	150 00 54	18 47 24
03	35	12.00	149 12 54	25 30 18	03	36	22.00	150 02 16	18 41 24
03	35	13.00	149 13 48	25 25 12	03	36	23.00	150 02 42	18 35 24
03	35	14.00	149 15 00	25 18 28	03	36	24.00	150 03 36	18 30 39
03	35	15.00	149 15 25	25 12 00	03	36	25.00	150 04 15	18 25 12
03	35	16.00	149 15 54	25 04 48	03	36	26.00	150 04 48	18 20 20
03	35	17.00	149 16 30	24 58 44	03	36	27.00	150 05 20	18 15 36
03	35	18.00	149 18 54	24 53 02	03	36	28.00	150 05 24	18 10 48
03	35	19.00	149 19 12	24 44 24	03	36	29.00	150 06 36	18 05 14
03	35	20.00	149 19 12	24 38 49	03	36	30.00	150 06 36	18 00 36
03	35	21.00	149 19 12	24 31 22	03	36	31.00	150 07 04	17 55 40
03	35	22.00	149 20 52	24 26 13	03	36	32.00	150 07 30	17 51 00
03	35	23.00	149 22 08	24 19 44	03	36	33.00	150 08 24	17 47 06
03	35	24.00	149 22 44	24 12 28	03	36	34.00	150 09 36	17 41 24
03	35	25.00	149 24 00	24 06 00	03	36	35.00	150 09 54	17 35 49
03	35	26.00	149 24 18	23 58 48	03	36	36.00	150 10 44	17 31 22
03	35	27.00	149 25 37	23 53 56	03	36	37.00	150 10 48	17 26 31
03	35	28.00	149 26 06	23 46 48	03	36	38.00	150 10 51	17 22 30
03	35	29.00	149 26 56	23 39 43	03	36	39.00	150 11 24	17 17 27
03	35	30.00	149 27 54	23 34 48	03	36	40.00	150 11 56	17 12 00
03	35	31.00	149 28 12	23 28 04	03	36	41.00	150 12 46	17 07 48
03	35	32.00	149 28 30	23 20 42	03	36	42.00	150 13 40	17 02 56
03	35	33.00	149 28 48	23 14 24	03	36	43.00	150 13 46	16 58 30
03	35	34.00	149 29 20	23 09 00	03	36	44.00	150 14 42	16 54 00
03	35	35.00	149 31 30	23 01 48	03	36	45.00	150 15 00	16 49 12
03	35	36.00	149 32 42	22 56 04	03	36	46.00	150 15 36	16 44 20
03	35	37.00	149 33 18	22 50 13	03	36	47.00	150 16 15	16 40 12
03	35	38.00	149 33 18	22 45 36	03	36	48.00	150 16 37	16 34 40
03	35	39.00	149 34 15	22 40 08	03	36	49.00	150 18 18	16 29 20
03	35	40.00	149 35 20	22 34 12	03	36	50.00	150 18 00	16 25 48
03	35	41.00	149 36 00	22 26 20	03	36	51.00	150 17 24	16 22 48
03	35	42.00	149 36 32	22 21 36	03	36	52.00	150 17 24	16 18 36
03	35	43.00	149 37 40	22 15 00	03	36	53.00	150 19 04	16 10 48
03	35	44.00	149 39 00	22 09 36	03	36	54.00	150 19 40	16 06 25
03	35	45.00	149 37 58	22 03 00	03	36	55.00	150 20 24	16 01 58
03	35	46.00	149 39 14	21 57 36	03	36	56.00	150 20 42	15 57 50
03	35	47.00	149 39 54	21 52 30	03	36	57.00	150 21 18	15 51 57
03	35	48.00	149 39 54	21 46 22	03	36	58.00	150 21 39	15 47 56
03	35	49.00	149 41 06	21 39 36	03	36	59.00	150 22 40	15 42 50
03	35	50.00	149 42 28	21 33 39	03	37	00.00	150 22 48	15 40 12
03	35	51.00	149 42 54	21 29 56	03	37	01.00	150 23 20	15 35 34
03	35	52.00	149 43 12	21 20 56	03	37	02.00	150 23 42	15 31 04
03	35	53.00	149 43 48	21 15 39	03	37	03.00	150 24 00	15 25 55
03	35	54.00	149 44 42	21 10 48	03	37	04.00	150 25 04	15 22 44
03	35	55.00	149 45 32	21 05 06	03	37	05.00	150 25 44	15 16 12
03	35	56.00	149 46 40	20 58 12	03	37	06.00	150 25 48	15 12 43
03	35	57.00	149 46 48	20 53 38	03	37	07.00	150 26 02	15 08 24

EDWARDS AFB THEOD. STA. 9. LAT. 34 56 43 N LONG. 242 05 14 E HT 0785 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
03	37	08.00	150 25 55	15 03 46	03	38	18.00	150 55 12	10 28 48
03	37	09.00	150 25 55	14 59 56	03	38	19.00	150 55 12	10 25 22
03	37	10.00	150 27 18	14 55 12	03	38	20.00	150 55 22	10 21 43
03	37	11.00	150 27 18	14 51 39	03	38	21.00	150 56 16	10 17 42
03	37	12.00	150 27 54	14 46 19	03	38	22.00	150 57 18	10 13 48
03	37	13.00	150 28 48	14 43 08	03	38	23.00	150 57 18	10 10 12
03	37	14.00	150 29 49	14 39 00	03	38	24.00	150 57 18	10 07 37
03	37	15.00	150 29 24	14 34 15	03	38	25.00	150 57 18	10 04 22
03	37	16.00	150 29 24	14 30 07	03	38	26.00	150 57 57	09 59 42
03	37	17.00	150 30 18	14 25 58	03	38	27.00	150 58 55	09 56 24
03	37	18.00	150 30 36	14 21 36	03	38	28.00	150 59 02	09 52 30
03	37	19.00	150 31 04	14 17 06	03	38	29.00	150 59 06	09 49 01
03	37	20.00	150 31 12	14 13 04	03	38	30.00	150 59 16	09 45 39
03	37	21.00	150 31 15	14 09 00	03	38	31.00	150 59 56	09 42 00
03	37	22.00	150 33 00	14 04 33	03	38	32.00	150 59 56	09 38 56
03	37	23.00	150 33 00	13 59 38	03	38	33.00	151 00 14	09 35 45
03	37	24.00	150 33 00	13 56 24	03	38	34.00	151 01 04	09 31 37
03	37	25.00	150 33 00	13 52 12	03	38	35.00	151 00 36	09 28 08
03	37	26.00	150 34 22	13 47 31	03	38	36.00	151 00 36	09 24 32
03	37	27.00	150 34 48	13 44 02	03	38	37.00	151 00 54	09 21 00
03	37	28.00	150 35 13	13 39 36	03	38	38.00	151 01 26	09 16 44
03	37	29.00	150 35 56	13 36 32	03	38	39.00	151 01 48	09 14 42
03	37	30.00	150 36 14	13 32 02	03	38	40.00	151 02 20	09 13 12
03	37	31.00	150 36 18	13 27 36	03	38	41.00	151 02 56	09 12 36
03	37	32.00	150 36 36	13 24 00	03	38	42.00	151 03 54	09 10 48
03	37	33.00	150 37 15	13 19 12	03	38	43.00	151 03 36	09 04 48
03	37	34.00	150 37 40	13 15 18	03	38	44.00	151 03 36	08 57 36
03	37	35.00	150 38 06	13 10 48	03	38	45.00	151 04 15	08 52 48
03	37	36.00	150 38 06	13 07 26	03	38	46.00	151 05 24	08 49 48
03	37	37.00	150 38 42	13 03 32	03	38	47.00	151 05 24	08 47 06
03	37	38.00	150 39 54	12 58 48	03	38	48.00	151 05 42	08 45 00
03	37	39.00	150 39 54	12 55 44	03	38	49.00	151 06 00	08 40 30
03	37	40.00	150 39 54	12 52 01	03	38	50.00	151 06 18	08 37 12
03	37	41.00	150 39 54	12 48 00	03	38	51.00	151 06 18	08 33 25
03	37	42.00	150 41 24	12 43 12	03	38	52.00	151 06 18	08 31 08
03	37	43.00	150 41 42	12 38 30	03	38	53.00	151 06 32	08 28 01
03	37	44.00	150 42 00	12 36 10	03	38	54.00	151 07 22	08 24 36
03	37	45.00	150 42 32	12 32 24	03	38	55.00	151 07 37	08 21 18
03	37	46.00	150 42 36	12 28 48	03	38	56.00	151 07 37	08 18 00
03	37	47.00	150 43 08	12 24 00	03	38	57.00	151 08 06	08 14 24
03	37	48.00	150 43 08	12 20 06	03	38	58.00	151 09 00	08 10 48
03	37	49.00	150 43 48	12 15 00	03	38	59.00	151 09 32	08 07 48
03	37	50.00	150 44 24	12 12 00	03	39	00.00	151 09 32	08 03 54
03	37	51.00	150 45 00	12 08 24	03	39	01.00	151 09 36	08 00 32
03	37	52.00	150 45 00	12 04 12	03	39	02.00	151 09 36	07 58 15
03	37	53.00	150 45 14	12 01 55	03	39	03.00	151 10 12	07 56 24
03	37	54.00	150 45 54	11 56 24	03	39	04.00	151 10 30	07 52 48
03	37	55.00	150 46 44	11 53 24	03	39	05.00	151 10 55	07 47 49
03	37	56.00	150 46 48	11 48 32	03	39	06.00	151 11 20	07 44 06
03	37	57.00	150 46 48	11 45 28	03	39	07.00	151 12 00	07 41 45
03	37	58.00	150 46 58	11 42 00	03	39	08.00	151 12 36	07 37 12
03	37	59.00	150 47 27	11 38 27	03	39	09.00	151 12 54	07 34 48
03	38	00.00	150 48 32	11 34 48	03	39	10.00	151 13 08	07 31 44
03	38	01.00	150 48 36	11 31 55	03	39	11.00	151 13 08	07 28 30
03	38	02.00	150 48 39	11 27 03	03	39	12.00	151 13 12	07 25 12
03	38	03.00	150 49 48	11 23 24	03	39	13.00	151 13 12	07 22 30
03	38	04.00	150 50 16	11 19 12	03	39	14.00	151 13 51	07 18 50
03	38	05.00	150 50 16	11 15 36	03	39	15.00	151 14 24	07 16 08
03	38	06.00	150 51 00	11 11 24	03	39	16.00	151 14 24	07 12 14
03	38	07.00	150 52 04	11 06 36	03	39	17.00	151 14 31	07 09 18
03	38	08.00	150 52 12	11 04 15	03	39	18.00	151 14 45	07 06 36
03	38	09.00	150 52 01	11 00 36	03	39	19.00	151 14 56	07 01 48
03	38	10.00	150 52 12	10 58 08	03	39	20.00	151 15 00	06 59 24
03	38	11.00	150 52 12	10 53 34	03	39	21.00	151 15 00	06 55 40
03	38	12.00	150 52 33	10 50 06	03	39	22.00	151 16 08	06 53 20
03	38	13.00	150 52 48	10 46 12	03	39	23.00	151 16 22	06 49 40
03	38	14.00	150 53 24	10 41 31	03	39	24.00	151 16 22	06 46 48
03	38	15.00	150 54 00	10 38 56	03	39	25.00	151 16 22	06 42 00
03	38	16.00	150 54 32	10 34 15	03	39	26.00	151 16 22	06 39 36
03	38	17.00	150 54 54	10 31 44	03	39	27.00	151 16 22	06 38 02

EDWARDS AFB THEO0. STA. 9.

LAT. 34 56 43 N

LONG. 242 05 14 E

HT 0785 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
03	39	28.00	151 16 22	06 36 00
03	39	29.00	151 16 22	06 34 33
03	39	30.00	151 16 22	06 31 48
03	39	31.00	151 16 22	06 30 14
03	39	32.00	151 16 22	06 28 22
03	39	33.00	151 16 22	06 27 00
03	39	34.00	151 16 48	06 25 37
03	39	35.00	151 18 00	06 23 27
03	39	36.00	151 17 16	06 19 37
03	39	37.00	151 16 12	06 16 30
03	39	38.00	151 16 12	06 12 00
03	39	39.00	151 16 12	06 09 36
03	39	40.00	151 16 08	06 07 48

HR	MIN	SEC	AZIMUTH	ELEVATION
03	39	41.00	151 15 36	06 05 24
03	39	42.00	151 15 36	05 59 56
03	39	43.00	151 15 36	05 56 34
03	39	44.00	151 15 36	05 52 08
03	39	45.00	151 15 36	05 51 18
03	39	46.00	151 15 39	05 51 18
03	39	47.00	151 15 39	05 51 18
03	39	48.00	151 15 39	05 50 52
03	39	49.00	151 15 39	05 44 20
03	39	50.00	151 15 39	05 31 48
03	39	51.00	151 15 39	05 30 36
03	39	52.00	151 15 32	05 30 36
03	39	53.00	151 15 18	05 27 00

PATRICK AFB THEO0. STA. 1.20

LAT. 28 31 29 N

LONG. 279 26 21 E

HT 0011 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	44	42.00	316 05 36	20 44 24
01	44	43.00	316 04 48	20 52 12
01	44	44.00	315 59 24	21 02 24
01	44	45.00	315 55 12	21 09 36
01	44	46.00	315 49 48	21 22 12
01	44	47.00	315 43 48	21 28 48
01	44	48.00	315 37 48	21 38 24
01	44	49.00	315 34 12	21 48 00
01	44	50.00	315 25 12	21 56 24
01	44	51.00	315 21 00	22 06 00
01	44	52.00	315 15 00	22 13 48
01	44	53.00	315 07 48	22 22 48
01	44	54.00	315 01 12	22 31 48
01	44	55.00	314 55 48	22 40 48
01	44	56.00	314 49 12	22 52 12
01	44	57.00	314 42 36	23 03 36
01	44	58.00	314 38 24	23 11 24
01	44	59.00	314 31 48	23 19 12
01	45	00.00	314 25 48	23 29 24
01	45	01.00	314 20 24	23 38 24
01	45	02.00	314 12 00	23 49 12
01	45	03.00	314 05 24	23 58 12
01	45	04.00	313 58 12	24 05 24
01	45	05.00	313 49 12	24 17 24
01	45	06.00	313 43 12	24 28 12
01	45	07.00	313 37 12	24 37 12
01	45	08.00	313 30 36	24 45 36
01	45	09.00	313 23 24	24 57 00
01	45	10.00	313 16 48	25 07 12
01	45	11.00	313 10 48	25 16 48
01	45	12.00	313 04 48	25 27 36
01	45	13.00	312 55 48	25 37 48
01	45	14.00	312 48 36	25 47 24
01	45	15.00	312 42 00	25 57 00
01	45	16.00	312 34 48	26 05 24
01	45	17.00	312 27 36	26 17 24
01	45	18.00	312 18 36	26 27 00
01	45	19.00	312 11 24	26 37 12
01	45	20.00	312 05 24	26 48 36
01	45	21.00	311 55 48	26 57 36
01	45	22.00	311 48 00	27 09 36
01	45	23.00	311 39 36	27 17 24
01	45	24.00	311 30 36	27 29 24
01	45	25.00	311 24 00	27 40 48
01	45	26.00	311 16 48	27 51 36
01	45	27.00	311 07 48	28 01 48
01	45	28.00	311 03 36	28 13 12
01	45	29.00	310 50 24	28 25 12
01	45	30.00	310 42 36	28 34 12

HR	MIN	SEC	AZIMUTH	ELEVATION
01	45	31.00	310 33 36	28 45 00
01	45	32.00	310 27 36	28 53 24
01	45	33.00	310 19 48	29 07 48
01	45	34.00	310 09 00	29 19 48
01	45	35.00	310 00 00	29 28 48
01	45	36.00	309 50 24	29 39 36
01	45	37.00	309 43 48	29 50 24
01	45	38.00	309 33 00	30 00 36
01	45	39.00	309 25 48	30 12 00
01	45	40.00	309 16 48	30 26 24
01	45	41.00	309 05 24	30 36 00
01	45	42.00	308 55 12	30 47 24
01	45	43.00	308 45 36	30 59 24
01	45	44.00	308 34 48	31 08 24
01	45	45.00	308 24 36	31 19 12
01	45	46.00	308 16 48	31 30 36
01	45	47.00	308 07 48	31 37 12
01	45	48.00	307 57 00	31 54 36
01	45	49.00	307 46 48	32 06 36
01	45	50.00	307 31 48	32 18 36
01	45	51.00	307 24 36	32 31 48
01	45	52.00	307 16 12	32 42 00
01	45	53.00	307 04 12	32 54 36
01	45	54.00	306 52 48	33 03 36
01	45	55.00	306 44 24	33 16 48
01	45	56.00	306 33 36	33 30 36
01	45	57.00	306 21 36	33 40 48
01	45	58.00	306 13 48	33 52 12
01	45	59.00	306 00 36	34 04 12
01	46	00.00	305 50 24	34 15 00
01	46	01.00	305 37 48	34 30 00
01	46	02.00	305 24 00	34 41 24
01	46	03.00	305 12 36	34 52 12
01	46	04.00	305 01 12	35 06 36
01	46	05.00	304 49 12	35 16 12
01	46	06.00	304 36 36	35 29 24
01	46	07.00	304 23 24	35 40 48
01	46	08.00	304 12 00	35 53 24
01	46	09.00	304 01 48	36 07 12
01	46	10.00	303 47 24	36 17 24
01	46	11.00	303 33 36	36 31 48
01	46	12.00	303 20 24	36 44 24
01	46	13.00	303 08 24	36 55 48
01	46	14.00	302 55 48	37 10 48
01	46	15.00	302 41 24	37 13 48
01	46	16.00	302 27 36	37 30 00
01	46	17.00	302 13 12	37 44 24
01	46	18.00	302 01 48	37 57 00
01	46	19.00	301 46 48	38 09 36

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	46	20.00	301 37 12	38 24 36	01	47	30.00	276 01 48	52 37 48
01	46	21.00	301 24 00	38 37 48	01	47	31.00	275 28 48	52 50 24
01	46	22.00	301 15 36	38 50 24	01	47	32.00	274 54 36	53 00 00
01	46	23.00	300 52 48	39 03 00	01	47	33.00	274 24 36	53 08 24
01	46	24.00	300 34 48	39 16 48	01	47	34.00	273 50 24	53 19 48
01	46	25.00	300 21 00	39 26 24	01	47	35.00	273 19 48	53 28 48
01	46	26.00	300 04 12	39 39 36	01	47	36.00	272 42 00	53 36 36
01	46	27.00	299 49 48	39 52 12	01	47	37.00	272 15 00	53 46 12
01	46	28.00	299 33 00	40 06 00	01	47	38.00	271 40 48	53 57 00
01	46	29.00	299 16 48	40 17 24	01	47	39.00	271 07 48	54 05 24
01	46	30.00	299 03 00	40 30 36	01	47	40.00	270 30 36	54 12 36
01	46	31.00	298 46 48	40 45 00	01	47	41.00	269 57 00	54 21 36
01	46	32.00	298 30 36	40 59 24	01	47	42.00	269 21 36	54 31 12
01	46	33.00	298 15 00	41 10 48	01	47	43.00	268 46 12	54 39 00
01	46	34.00	297 55 48	41 24 00	01	47	44.00	268 11 24	54 46 12
01	46	35.00	297 38 24	41 34 12	01	47	45.00	267 33 36	54 55 12
01	46	36.00	297 22 12	41 49 48	01	47	46.00	267 00 36	55 04 12
01	46	37.00	297 05 24	42 03 36	01	47	47.00	266 25 48	55 11 24
01	46	38.00	296 48 36	42 15 00	01	47	48.00	265 45 36	55 16 48
01	46	39.00	296 29 24	42 27 00	01	47	49.00	265 13 12	55 23 24
01	46	40.00	296 14 24	42 42 00	01	47	50.00	264 33 00	55 29 24
01	46	41.00	295 55 48	42 54 00	01	47	51.00	264 00 00	55 37 12
01	46	42.00	295 34 48	43 06 00	01	47	52.00	263 22 12	55 44 24
01	46	43.00	295 18 00	43 19 12	01	47	53.00	262 47 24	55 51 00
01	46	44.00	294 58 48	43 31 48	01	47	54.00	262 04 12	55 57 36
01	46	45.00	294 41 24	43 44 24	01	47	55.00	261 28 12	56 00 36
01	46	46.00	294 24 00	43 58 12	01	47	56.00	260 48 36	56 08 24
01	46	47.00	294 01 48	44 10 12	01	47	57.00	260 14 24	56 13 48
01	46	48.00	293 40 48	44 21 36	01	47	58.00	259 32 24	56 17 24
01	46	49.00	293 21 00	44 35 24	01	47	59.00	258 50 24	56 24 36
01	46	50.00	293 01 48	44 48 00	01	48	00.00	258 16 12	56 23 12
01	46	51.00	292 40 12	45 02 24	01	48	01.00	257 37 48	56 34 12
01	46	52.00	292 19 48	45 13 48	01	48	02.00	256 59 24	56 37 48
01	46	53.00	292 05 24	45 28 12	01	48	03.00	256 16 12	56 40 12
01	46	54.00	291 39 36	45 40 12	01	48	04.00	255 40 12	56 44 24
01	46	55.00	291 22 12	45 51 36	01	48	05.00	254 58 12	56 47 24
01	46	56.00	290 58 12	46 06 00	01	48	06.00	254 12 36	56 52 12
01	46	57.00	290 38 24	46 19 12	01	48	07.00	253 39 36	56 53 24
01	46	58.00	290 14 24	46 31 12	01	48	08.00	253 00 36	56 58 48
01	46	59.00	289 54 36	46 45 00	01	48	09.00	252 22 48	57 00 36
01	47	00.00	289 33 00	46 55 48	01	48	10.00	251 39 36	57 03 36
01	47	01.00	289 04 48	47 08 24	01	48	11.00	251 01 12	57 04 48
01	47	02.00	288 41 24	47 20 24	01	48	12.00	250 24 36	57 08 24
01	47	03.00	288 19 48	47 32 24	01	48	13.00	249 42 36	57 06 36
01	47	04.00	287 59 24	47 45 36	01	48	14.00	248 58 48	57 12 00
01	47	05.00	287 33 36	47 55 12	01	48	15.00	248 19 12	57 12 36
01	47	06.00	287 09 00	48 09 00	01	48	16.00	247 40 48	57 15 00
01	47	07.00	286 41 24	48 22 12	01	48	17.00	247 03 36	57 15 36
01	47	08.00	286 18 36	48 35 24	01	48	18.00	246 25 12	57 15 36
01	47	09.00	286 00 00	48 51 36	01	48	19.00	245 45 00	57 18 00
01	47	10.00	285 39 36	49 06 00	01	48	20.00	245 06 00	57 18 00
01	47	11.00	285 09 00	49 09 36	01	48	21.00	244 21 36	57 18 00
01	47	12.00	284 36 00	49 22 48	01	48	22.00	243 43 48	57 18 00
01	47	13.00	284 09 36	49 34 48	01	48	23.00	243 01 48	57 16 12
01	47	14.00	283 45 36	49 46 48	01	48	24.00	242 22 48	57 15 36
01	47	15.00	283 17 24	49 57 36	01	48	25.00	241 51 00	57 15 00
01	47	16.00	282 49 48	50 08 24	01	48	26.00	241 03 36	57 14 24
01	47	17.00	282 22 48	50 19 48	01	48	27.00	240 18 36	57 14 24
01	47	18.00	281 57 00	50 33 00	01	48	28.00	239 48 36	57 13 12
01	47	19.00	281 28 12	50 44 24	01	48	29.00	239 03 36	57 11 24
01	47	20.00	281 01 12	50 56 24	01	48	30.00	238 27 36	57 09 36
01	47	21.00	280 32 24	51 08 24	01	48	31.00	237 48 36	57 07 12
01	47	22.00	280 06 36	51 18 00	01	48	32.00	237 10 48	57 04 48
01	47	23.00	279 37 12	51 27 00	01	48	33.00	236 31 12	57 02 24
01	47	24.00	279 07 12	51 38 24	01	48	34.00	235 52 48	57 00 00
01	47	25.00	278 37 48	51 49 48	01	48	35.00	235 15 36	56 57 00
01	47	26.00	278 09 36	51 59 24	01	48	36.00	234 39 00	56 54 00
01	47	27.00	277 33 36	52 10 12	01	48	37.00	233 59 24	56 51 00
01	47	28.00	277 06 00	52 19 48	01	48	38.00	233 24 36	56 47 24
01	47	29.00	276 35 24	52 31 12	01	48	39.00	232 45 36	56 43 48

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

17 MAY 58

HR MIN SEC AZIMUTH ELEVATION

01	48	40.00	232 09 00	56 40 12
01	48	41.00	231 31 48	56 36 36
01	48	42.00	230 54 36	56 33 36
01	48	43.00	230 18 36	56 29 24
01	48	44.00	229 42 36	56 24 00

01	48	45.00	229 06 00	56 19 48
01	48	46.00	228 28 12	56 16 12
01	48	47.00	227 51 00	56 12 36
01	48	48.00	227 19 48	56 12 00
01	48	49.00	226 48 00	55 57 36

01	48	50.00	226 13 48	55 54 00
01	48	51.00	225 43 48	55 48 36
01	48	52.00	225 06 36	55 43 12
01	48	53.00	224 34 12	55 36 36
01	48	54.00	224 00 00	55 31 12

01	48	55.00	223 28 48	55 22 48
01	48	56.00	222 47 24	55 18 00
01	48	57.00	222 20 24	55 12 00
01	48	58.00	221 51 36	55 04 48
01	48	59.00	221 15 00	54 58 12

01	49	00.00	220 40 12	54 51 00
01	49	01.00	220 08 24	54 45 00
01	49	02.00	219 40 12	54 36 36
01	49	03.00	219 09 36	54 28 48
01	49	04.00	218 30 00	54 21 36

01	49	05.00	218 04 12	54 16 12
01	49	06.00	217 45 00	54 09 36
01	49	07.00	217 06 36	54 01 48
01	49	08.00	216 41 24	53 52 12
01	49	09.00	216 11 24	53 43 48

01	49	10.00	215 44 24	53 37 12
01	49	11.00	215 17 24	53 28 12
01	49	12.00	214 46 12	53 19 48
01	49	13.00	214 18 36	53 13 12
01	49	14.00	213 52 12	53 04 12

01	49	15.00	213 24 36	52 55 48
01	49	16.00	212 56 24	52 46 12
01	49	17.00	212 32 24	52 37 48
01	49	18.00	212 03 36	52 30 00
01	49	19.00	211 37 12	52 21 00

01	49	20.00	211 13 12	52 12 36
01	49	21.00	210 46 12	52 06 36
01	49	22.00	210 19 12	51 56 24
01	49	23.00	209 56 24	51 45 00
01	49	24.00	209 33 36	51 37 12

01	49	25.00	209 04 12	51 30 36
01	49	26.00	208 52 48	51 19 48
01	49	27.00	208 22 12	51 10 48
01	49	28.00	207 57 36	51 02 24
01	49	29.00	207 34 48	50 54 36

01	49	30.00	207 12 36	50 42 36
01	49	31.00	206 52 12	50 34 12
01	49	32.00	206 27 36	50 27 00
01	49	33.00	206 03 36	50 16 12
01	49	34.00	205 43 12	50 05 24

01	49	35.00	205 21 36	49 57 36
01	49	36.00	205 02 24	49 48 00
01	49	37.00	204 41 24	49 37 48
01	49	38.00	204 18 00	49 29 24
01	49	39.00	203 57 36	49 19 12

01	49	40.00	203 42 36	49 09 36
01	49	41.00	203 19 12	49 02 24
01	49	42.00	202 58 12	48 52 12
01	49	43.00	202 37 12	48 43 48
01	49	44.00	202 20 24	48 31 12

01	49	45.00	201 58 48	48 23 24
01	49	46.00	201 37 12	48 13 12
01	49	47.00	201 22 48	48 04 12
01	49	48.00	201 01 12	47 53 24
01	49	49.00	200 43 12	47 43 12

HR MIN SEC AZIMUTH ELEVATION

01	49	50.00	200 29 24	47 31 12
01	49	51.00	200 09 36	47 25 12
01	49	52.00	199 54 00	47 16 48
01	49	53.00	199 35 24	47 07 12
01	49	54.00	199 16 48	46 55 12

01	49	55.00	198 57 36	46 48 00
01	49	56.00	198 40 48	46 38 24
01	49	57.00	198 26 24	46 27 00
01	49	58.00	198 11 24	46 18 36
01	49	59.00	197 55 48	46 07 48

01	50	00.00	197 37 48	45 57 36
01	50	01.00	197 18 36	45 48 00
01	50	02.00	197 01 48	45 39 36
01	50	03.00	196 47 24	45 28 48
01	50	04.00	196 33 36	45 19 12

01	50	05.00	196 16 48	45 09 00
01	50	06.00	196 02 24	45 00 36
01	50	07.00	195 45 36	44 51 00
01	50	08.00	195 30 36	44 41 24
01	50	09.00	195 15 36	44 32 24

01	50	10.00	195 03 00	44 21 36
01	50	11.00	194 49 12	44 12 00
01	50	12.00	194 37 48	44 01 12
01	50	13.00	194 23 24	43 52 48
01	50	14.00	194 09 00	43 45 00

01	50	15.00	193 55 48	43 34 12
01	50	16.00	193 42 36	43 24 36
01	50	17.00	193 28 48	43 14 24
01	50	18.00	193 13 48	43 06 00
01	50	19.00	193 04 12	42 57 36

01	50	20.00	192 49 12	42 47 24
01	50	21.00	192 36 36	42 38 24
01	50	22.00	192 24 00	42 30 36
01	50	23.00	192 12 00	42 19 48
01	50	24.00	191 58 48	42 10 48

01	50	25.00	191 46 12	42 01 12
01	50	26.00	191 36 36	41 50 24
01	50	27.00	191 21 36	41 42 00
01	50	28.00	191 09 36	41 33 36
01	50	29.00	190 58 48	41 24 00

01	50	30.00	190 47 24	41 14 24
01	50	31.00	190 36 00	41 06 36
01	50	32.00	190 25 48	40 56 24
01	50	33.00	190 15 00	40 48 00
01	50	34.00	190 03 00	40 39 00

01	50	35.00	189 52 48	40 30 36
01	50	36.00	189 40 12	40 22 12
01	50	37.00	189 29 24	40 13 12
01	50	38.00	189 18 00	40 03 00
01	50	39.00	189 11 24	39 55 12

01	50	40.00	188 59 24	39 45 36
01	50	41.00	188 49 48	39 36 00
01	50	42.00	188 38 24	39 28 48
01	50	43.00	188 28 48	39 18 36
01	50	44.00	188 17 24	39 10 48

01	50	45.00	188 10 48	39 01 48
01	50	46.00	187 59 24	38 52 48
01	50	47.00	187 49 48	38 44 24
01	50	48.00	187 39 36	38 34 48
01	50	49.00	187 30 36	38 26 24

01	50	50.00	187 20 24	38 18 36
01	50	51.00	187 09 36	38 09 00
01	50	52.00	187 01 48	38 01 12
01	50	53.00	186 54 36	37 55 48
01	50	54.00	186 45 00	37 44 24

01	50	55.00	186 36 00	37 34 12
01	50	56.00	186 26 24	37 26 24
01	50	57.00	186 16 48	37 18 36
01	50	58.00	186 09 00	37 10 48
01	50	59.00	185 58 48	37 01 48

PATRICK AF8 THE00. STA. 1.20 LAT. 28 21 29 N LONG. 279 26 21 E HT 0011 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	51	00.00	185 49 48	36 53 24	01	52	10.00	176 30 00	28 20 24
01	51	01.00	185 42 36	36 44 24	01	52	11.00	178 24 36	28 12 36
01	51	02.00	185 34 12	36 39 00	01	52	12.00	178 19 12	28 06 36
01	51	03.00	185 25 48	36 30 00	01	52	13.00	178 13 48	28 01 12
01	51	04.00	185 17 24	36 21 36	01	52	14.00	178 08 24	27 52 48
01	51	05.00	185 11 24	36 12 00	01	52	15.00	178 03 36	27 46 48
01	51	06.00	185 02 24	36 03 00	01	52	16.00	178 00 00	27 40 48
01	51	07.00	184 55 48	35 56 24	01	52	17.00	177 55 12	27 33 36
01	51	08.00	184 47 24	35 49 12	01	52	18.00	177 52 12	27 28 48
01	51	09.00	184 39 36	35 40 12	01	52	19.00	177 46 00	27 22 12
01	51	10.00	184 31 12	35 31 12	01	52	20.00	177 43 48	27 14 24
01	51	11.00	184 22 12	35 23 24	01	52	21.00	177 38 24	27 09 00
01	51	12.00	184 14 24	35 15 36	01	52	22.00	177 35 24	27 02 24
01	51	13.00	184 07 12	35 06 36	01	52	23.00	177 30 00	26 57 00
01	51	14.00	183 59 24	35 00 00	01	52	24.00	177 25 12	26 50 24
01	51	15.00	183 51 36	34 52 12	01	52	25.00	177 22 12	26 44 24
01	51	16.00	183 46 12	34 44 24	01	52	26.00	177 18 00	26 37 48
01	51	17.00	183 38 24	34 37 48	01	52	27.00	177 14 24	26 30 36
01	51	18.00	183 30 00	34 27 36	01	52	28.00	177 09 36	26 25 12
01	51	19.00	183 22 12	34 21 00	01	52	29.00	177 06 00	26 18 00
01	51	20.00	183 15 36	34 13 12	01	52	30.00	177 00 36	26 09 36
01	51	21.00	183 08 24	34 05 24	01	52	31.00	176 57 36	26 06 36
01	51	22.00	183 01 48	33 56 24	01	52	32.00	176 52 48	26 02 24
01	51	23.00	182 55 12	33 49 12	01	52	33.00	176 48 36	25 55 48
01	51	24.00	182 47 24	33 43 48	01	52	34.00	176 45 36	25 49 48
01	51	25.00	182 40 48	33 34 48	01	52	35.00	176 42 00	25 43 12
01	51	26.00	182 34 48	33 25 48	01	52	36.00	176 36 36	25 37 48
01	51	27.00	182 28 12	33 19 48	01	52	37.00	176 31 48	25 33 00
01	51	28.00	182 19 48	33 12 00	01	52	38.00	176 28 48	25 27 36
01	51	29.00	182 13 48	33 04 48	01	52	39.00	176 25 12	25 22 12
01	51	30.00	182 08 24	32 56 24	01	52	40.00	176 22 12	25 16 12
01	51	31.00	182 00 00	32 49 48	01	52	41.00	176 19 12	25 10 12
01	51	32.00	181 57 00	32 42 36	01	52	42.00	176 15 36	25 03 36
01	51	33.00	181 50 24	32 34 12	01	52	43.00	176 09 36	24 58 12
01	51	34.00	181 45 00	32 26 24	01	52	44.00	176 06 36	24 52 48
01	51	35.00	181 37 48	32 19 48	01	52	45.00	176 03 00	24 46 12
01	51	36.00	181 30 00	32 12 00	01	52	46.00	175 59 24	24 42 00
01	51	37.00	181 24 00	32 03 36	01	52	47.00	175 54 36	24 37 48
01	51	38.00	181 19 48	31 57 36	01	52	48.00	175 51 36	24 30 36
01	51	39.00	181 12 36	31 51 36	01	52	49.00	175 48 00	24 24 36
01	51	40.00	181 07 12	31 43 12	01	52	50.00	175 43 48	24 19 12
01	51	41.00	181 01 48	31 34 48	01	52	51.00	175 40 12	24 13 12
01	51	42.00	180 55 48	31 28 48	01	52	52.00	175 36 36	24 08 24
01	51	43.00	180 49 12	31 21 36	01	52	53.00	175 33 36	24 02 24
01	51	44.00	180 43 48	31 15 00	01	52	54.00	175 30 00	23 55 48
01	51	45.00	180 37 48	31 08 24	01	52	55.00	175 25 48	23 49 48
01	51	46.00	180 31 48	31 00 36	01	52	56.00	175 24 00	23 44 24
01	51	47.00	180 25 48	30 51 00	01	52	57.00	175 20 24	23 40 12
01	51	48.00	180 22 48	30 44 24	01	52	58.00	175 17 24	23 34 48
01	51	49.00	180 15 00	30 35 00	01	52	59.00	175 13 48	23 28 12
01	51	50.00	180 10 12	30 33 00	01	53	00.00	175 11 24	23 21 00
01	51	51.00	180 04 12	30 25 12	01	53	01.00	175 07 12	23 16 48
01	51	52.00	179 57 36	30 18 36	01	53	02.00	175 04 12	23 12 00
01	51	53.00	179 52 48	30 13 12	01	53	03.00	175 00 00	23 04 48
01	51	54.00	179 48 00	30 07 12	01	53	04.00	174 57 36	22 58 48
01	51	55.00	179 42 36	29 57 00	01	53	05.00	174 54 00	22 55 12
01	51	56.00	179 37 48	29 51 00	01	53	06.00	174 51 00	22 52 12
01	51	57.00	179 33 00	29 44 24	01	53	07.00	174 47 24	22 46 12
01	51	58.00	179 27 36	29 38 24	01	53	08.00	174 43 48	22 41 24
01	51	59.00	179 21 00	29 33 00	01	53	09.00	174 42 00	22 35 24
01	52	00.00	179 16 48	29 26 24	01	53	10.00	174 37 48	22 30 00
01	52	01.00	179 10 12	29 18 36	01	53	11.00	174 34 12	22 24 00
01	52	02.00	179 06 36	29 12 00	01	53	12.00	174 33 00	22 19 12
01	52	03.00	179 01 48	29 05 24	01	53	13.00	174 28 48	22 13 48
01	52	04.00	178 57 00	28 58 12	01	53	14.00	174 25 12	22 09 00
01	52	05.00	178 52 12	28 51 36	01	53	15.00	174 21 36	22 04 48
01	52	06.00	178 47 24	28 46 12	01	53	16.00	174 19 12	22 01 12
01	52	07.00	178 41 24	28 39 36	01	53	17.00	174 16 48	21 55 48
01	52	08.00	178 37 12	28 33 00	01	53	18.00	174 13 48	21 49 12
01	52	09.00	178 34 48	28 26 24	01	53	19.00	174 11 24	21 44 24

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	53	20.00	174 07 48	21 39 00	01	53	37.00	173 21 36	20 13 12
01	53	21.00	174 04 48	21 33 00	01	53	38.00	173 19 12	20 09 36
01	53	22.00	174 01 48	21 27 00	01	53	39.00	173 16 12	20 04 48
01	53	23.00	174 00 00	21 23 24	01	53	40.00	173 13 48	20 00 36
01	53	24.00	173 57 00	21 23 24	01	53	41.00	173 12 36	19 54 36
01	53	25.00	173 54 00	21 13 48	01	53	42.00	173 10 12	19 49 48
01	53	26.00	173 51 00	21 07 48	01	53	43.00	173 07 48	19 43 48
01	53	27.00	173 48 00	21 01 48	01	53	44.00	173 04 48	19 38 24
01	53	28.00	173 44 24	20 57 36	01	53	45.00	172 59 24	19 32 24
01	53	29.00	173 42 00	20 51 36	01	53	46.00	172 54 36	19 24 00
01	53	30.00	173 39 00	20 46 48	01	53	47.00	172 53 24	19 14 24
01	53	31.00	173 36 00	20 42 36	01	53	48.00	172 48 36	19 07 48
01	53	32.00	173 33 00	20 37 48	01	53	49.00	172 43 12	19 00 36
01	53	33.00	173 30 36	20 31 12	01	53	50.00	172 28 12	18 54 00
01	53	34.00	173 28 12	20 27 36	01	53	51.00	172 26 24	18 48 00
01	53	35.00	173 26 24	20 22 48	01	53	52.00	172 26 24	18 40 12
01	53	36.00	173 24 00	20 19 12					

PATRICK AFB THEOD. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	38	02.00	242 33 00	53 10 12	01	38	47.00	219 00 00	49 58 12
01	38	03.00	242 15 36	53 03 36	01	38	48.00	218 37 48	49 52 48
01	38	04.00	241 15 36	52 58 12	01	38	49.00	218 16 48	49 45 36
01	38	05.00	241 08 24	52 58 12	01	38	50.00	217 50 24	49 37 48
01	38	06.00	239 22 12	53 00 00	01	38	51.00	217 27 36	49 29 24
01	38	07.00	238 57 36	53 03 00	01	38	52.00	217 00 36	49 25 48
01	38	08.00	238 41 24	52 55 12	01	38	53.00	216 37 12	49 18 00
01	38	09.00	238 19 48	52 51 36	01	38	54.00	216 14 24	49 11 24
01	38	10.00	237 35 24	52 47 24	01	38	55.00	215 46 48	49 03 36
01	38	11.00	236 48 36	52 44 24	01	38	56.00	215 21 36	49 52 48
01	38	12.00	236 10 12	52 42 00	01	38	57.00	215 00 36	48 49 48
01	38	13.00	235 38 24	52 40 12	01	38	58.00	214 40 12	48 40 48
01	38	14.00	235 08 24	52 39 36	01	38	59.00	214 16 12	48 33 36
01	38	15.00	234 33 36	52 38 24	01	39	00.00	213 53 24	48 24 00
01	38	16.00	234 04 48	52 34 12	01	39	01.00	213 27 36	48 20 24
01	38	17.00	233 33 00	52 31 12	01	39	02.00	213 05 24	48 10 48
01	38	18.00	232 58 48	52 25 12	01	39	03.00	212 43 12	48 05 24
01	38	19.00	232 27 36	52 24 00	01	39	04.00	212 22 12	47 59 24
01	38	20.00	231 57 00	52 23 24	01	39	05.00	212 03 00	47 52 48
01	38	21.00	231 16 48	52 18 00	01	39	06.00	211 39 00	47 45 36
01	38	22.00	230 51 00	52 16 48	01	39	07.00	211 20 24	47 36 36
01	38	23.00	230 18 36	52 11 24	01	39	08.00	210 58 48	47 27 00
01	38	24.00	229 52 48	52 09 00	01	39	09.00	210 36 36	47 18 36
01	38	25.00	229 25 12	52 08 24	01	39	10.00	210 16 48	47 12 00
01	38	26.00	228 51 00	52 02 24	01	39	11.00	209 56 24	47 03 36
01	38	27.00	228 19 12	51 49 12	01	39	12.00	209 37 12	46 57 00
01	38	28.00	227 42 36	51 45 00	01	39	13.00	209 15 00	46 48 36
01	38	29.00	227 13 12	51 41 24	01	39	14.00	208 54 00	46 43 12
01	38	30.00	226 38 24	51 39 00	01	39	15.00	208 31 12	46 29 24
01	38	31.00	226 13 12	51 31 48	01	39	16.00	208 14 24	46 24 16
01	38	32.00	225 47 24	51 27 36	01	39	17.00	207 49 12	46 15 36
01	38	33.00	225 27 36	51 23 24	01	39	18.00	207 33 00	46 07 12
01	38	34.00	224 55 48	51 15 36	01	39	19.00	207 13 12	45 59 24
01	38	35.00	224 27 36	51 08 24	01	39	20.00	206 49 12	45 54 36
01	38	36.00	223 58 48	51 03 00	01	39	21.00	206 35 24	45 45 36
01	38	37.00	223 31 12	50 57 36	01	39	22.00	206 21 36	45 36 00
01	38	38.00	223 07 12	50 52 48	01	39	23.00	206 01 48	45 28 48
01	38	39.00	222 39 36	50 47 24	01	39	24.00	205 38 24	45 21 00
01	38	40.00	222 11 24	50 40 12	01	39	25.00	205 15 00	45 12 36
01	38	41.00	221 41 24	50 34 12	01	39	26.00	205 03 36	45 01 48
01	38	42.00	221 15 00	50 27 00	01	39	27.00	204 48 36	44 54 00
01	38	43.00	220 49 48	50 25 12	01	39	28.00	204 34 12	44 46 48
01	38	44.00	220 25 12	50 19 48	01	39	29.00	204 16 48	44 39 00
01	38	45.00	219 58 12	50 11 24	01	39	30.00	203 58 12	44 28 48
01	38	46.00	219 29 24	50 04 48	01	39	31.00	203 48 00	44 20 24

PATRICK AFB THE00. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M
17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	39	32.00	203 28 48	44 15 00
01	39	33.00	203 07 48	44 09 36
01	39	34.00	202 51 36	44 00 36
01	39	35.00	202 37 12	43 48 36
01	39	36.00	202 10 48	43 40 48
01	39	37.00	201 48 36	43 33 00
01	39	38.00	201 45 36	43 19 48
01	39	39.00	201 33 00	43 10 12
01	39	40.00	201 15 00	43 03 36
01	39	41.00	200 55 48	42 56 24
01	39	42.00	200 39 36	42 49 12
01	39	43.00	200 28 48	42 40 48
01	39	44.00	200 03 00	42 33 36
01	39	45.00	199 50 24	42 25 48
01	39	46.00	199 34 12	42 15 48
01	39	47.00	199 25 48	42 01 12
01	39	48.00	199 15 00	41 50 24
01	39	49.00	199 02 24	41 45 36
01	39	50.00	198 47 24	41 48 36
01	39	51.00	198 36 36	41 42 00
01	39	52.00	198 21 36	41 31 48
01	39	53.00	198 01 48	41 20 24
01	39	54.00	197 44 24	41 12 00
01	39	55.00	197 29 24	41 09 00
01	39	56.00	197 26 24	40 58 12
01	39	57.00	197 15 00	40 46 12
01	39	58.00	197 03 36	40 44 24
01	39	59.00	196 57 36	40 37 12
01	40	00.00	196 42 00	40 16 12
01	40	01.00	196 32 24	40 00 00
01	40	02.00	196 19 48	39 53 48
01	40	03.00	196 01 48	39 53 48
01	40	04.00	195 47 24	39 50 24
01	40	05.00	195 33 36	39 43 48
01	40	06.00	195 22 48	39 34 48
01	40	07.00	195 09 36	39 25 48
01	40	08.00	194 58 48	39 16 46
01	40	09.00	194 48 00	39 10 12
01	40	10.00	194 34 12	39 05 24
01	40	11.00	194 25 48	38 52 48
01	40	12.00	194 16 12	38 48 00
01	40	13.00	194 03 36	38 37 48
01	40	14.00	193 54 00	38 30 00
01	40	15.00	193 45 36	38 24 00
01	40	16.00	193 29 24	38 18 00
01	40	17.00	193 18 36	38 12 36
01	40	18.00	193 07 12	38 07 48
01	40	19.00	192 56 24	37 55 48
01	40	20.00	192 44 24	37 37 48
01	40	21.00	192 33 00	37 28 48
01	40	22.00	192 23 24	37 16 48
01	40	23.00	192 15 00	37 20 24
01	40	24.00	192 00 36	37 18 00
01	40	25.00	191 46 12	37 07 12
01	40	26.00	191 37 12	36 56 24
01	40	27.00	191 26 24	36 52 48
01	40	28.00	191 24 00	36 38 24
01	40	29.00	191 15 36	36 33 00
01	40	30.00	191 08 24	36 29 24
01	40	31.00	191 01 12	36 13 48
01	40	32.00	190 54 36	36 06 36
01	40	33.00	190 43 48	36 00 00
01	40	34.00	190 33 00	35 54 00
01	40	35.00	190 22 48	35 46 12
01	40	36.00	190 12 00	35 38 24
01	40	37.00	190 01 12	35 28 48
01	40	38.00	189 51 00	35 18 00
01	40	39.00	189 43 48	35 07 48
01	40	40.00	189 35 24	34 58 12
01	40	41.00	189 30 00	34 46 12

HR	MIN	SEC	AZIMUTH	ELEVATION
01	40	42.00	189 18 00	34 38 24
01	40	43.00	189 12 00	34 28 48
01	40	44.00	189 00 36	34 18 00
01	40	45.00	188 52 48	34 13 48
01	40	46.00	188 45 00	34 09 00
01	40	47.00	188 35 24	34 04 48
01	40	48.00	188 26 24	33 59 24
01	40	49.00	188 21 00	33 55 12
01	40	50.00	188 12 36	33 52 12
01	40	51.00	188 04 48	33 49 12
01	40	52.00	187 54 00	33 46 12
01	40	53.00	187 44 24	33 44 24
01	40	54.00	187 36 00	33 38 24
01	40	55.00	187 25 12	33 19 12
01	40	56.00	187 21 00	33 06 36
01	40	57.00	187 10 48	32 57 36
01	40	58.00	187 06 00	32 54 36
01	40	59.00	186 56 24	32 53 24
01	41	00.00	186 42 00	32 46 12
01	41	01.00	186 35 24	32 38 24
01	41	02.00	186 37 12	32 28 12
01	41	03.00	186 29 24	32 15 00
01	41	04.00	186 25 12	32 05 24
01	41	05.00	186 21 36	31 57 36
01	41	06.00	186 21 00	32 01 12
01	41	07.00	186 10 12	31 57 36
01	41	08.00	185 59 24	31 50 24
01	41	09.00	185 47 24	31 42 36
01	41	10.00	185 39 36	31 34 12
01	41	11.00	185 33 36	31 25 48
01	41	12.00	185 26 24	31 19 12
01	41	13.00	185 18 36	31 14 24
01	41	14.00	185 13 48	31 04 12
01	41	15.00	185 08 24	30 58 12
01	41	16.00	185 01 48	30 51 00
01	41	17.00	184 55 12	30 44 24
01	41	18.00	184 49 12	30 38 24
01	41	19.00	184 43 12	30 34 48
01	41	20.00	184 34 12	30 27 36
01	41	21.00	184 28 48	30 19 12
01	41	22.00	184 24 00	30 16 12
01	41	23.00	184 15 00	30 10 48
01	41	24.00	184 09 36	30 08 24
01	41	25.00	184 03 36	30 07 12
01	41	26.00	183 58 48	30 03 36
01	41	27.00	183 53 24	29 47 24
01	41	28.00	183 48 00	29 37 12
01	41	29.00	183 42 00	29 27 36
01	41	30.00	183 31 12	29 18 36
01	41	31.00	183 24 00	29 13 12
01	41	32.00	183 18 00	29 08 24
01	41	33.00	183 14 24	29 03 36
01	41	34.00	183 08 24	28 54 36
01	41	35.00	183 03 36	28 49 12
01	41	36.00	182 57 36	28 43 12
01	41	37.00	182 52 48	28 35 24
01	41	38.00	182 46 48	28 27 36
01	41	39.00	182 39 36	28 21 00
01	41	40.00	182 33 00	28 13 48
01	41	41.00	182 25 12	28 09 00
01	41	42.00	182 23 24	28 04 12
01	41	43.00	182 18 36	27 54 36
01	41	44.00	182 13 48	27 46 12
01	41	45.00	182 08 24	27 42 00
01	41	46.00	182 02 24	27 36 00
01	41	47.00	181 57 00	27 31 48
01	41	48.00	181 52 12	27 26 24
01	41	49.00	181 47 24	27 21 36
01	41	50.00	181 41 24	27 17 24
01	41	51.00	181 34 12	27 10 48

PATRICK AFB THEOD. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	41	52.00	181 33 00	27 05 24
01	41	53.00	181 28 12	27 00 00
01	41	54.00	181 23 24	26 52 12
01	41	55.00	181 18 36	26 45 36
01	41	56.00	181 12 00	26 40 48
01	41	57.00	181 07 48	26 33 36
01	41	58.00	181 04 12	26 26 24
01	41	59.00	180 58 48	26 20 24
01	42	00.00	180 54 36	26 15 36
01	42	01.00	180 51 36	26 12 00
01	42	02.00	180 47 24	26 04 48
01	42	03.00	180 42 00	25 59 24
01	42	04.00	180 39 36	25 55 48
01	42	05.00	180 33 00	25 47 24
01	42	06.00	180 28 12	25 45 00
01	42	07.00	180 24 00	25 42 00
01	42	08.00	180 18 36	25 34 12
01	42	09.00	180 16 12	25 25 48
01	42	10.00	180 12 00	25 19 48
01	42	11.00	180 07 48	25 11 24
01	42	12.00	180 05 24	25 06 36
01	42	13.00	180 01 12	25 00 36
01	42	14.00	179 54 36	24 57 36
01	42	15.00	179 48 36	24 53 24
01	42	16.00	179 43 12	24 39 36
01	42	17.00	179 37 12	24 34 12
01	42	18.00	179 33 00	24 29 24
01	42	19.00	179 29 24	24 27 00
01	42	20.00	179 25 48	24 22 12
01	42	21.00	179 22 48	24 17 24
01	42	22.00	179 21 00	24 11 24
01	42	23.00	179 16 12	24 06 36
01	42	24.00	179 09 00	24 03 00
01	42	25.00	179 04 48	23 58 48
01	42	26.00	178 58 48	23 53 24
01	42	27.00	178 52 48	23 45 00

HR	MIN	SEC	AZIMUTH	ELEVATION
01	42	28.00	178 46 48	23 40 48
01	42	29.00	178 45 36	23 37 12
01	42	30.00	178 43 48	23 31 12
01	42	31.00	178 42 00	23 24 00
01	42	32.00	178 37 12	23 18 36
01	42	33.00	178 34 12	23 12 36
01	42	34.00	178 29 24	23 06 36
01	42	35.00	178 25 12	23 01 48
01	42	36.00	178 21 36	22 57 00
01	42	37.00	178 18 36	22 51 00
01	42	38.00	178 15 00	22 46 12
01	42	39.00	178 11 24	22 42 00
01	42	40.00	178 07 48	22 39 00
01	42	41.00	178 04 48	22 34 48
01	42	42.00	178 00 36	22 30 36
01	42	43.00	177 56 24	22 27 00
01	42	44.00	177 52 12	22 18 00
01	42	45.00	177 49 12	22 13 12
01	42	46.00	177 43 12	22 09 00
01	42	47.00	177 39 00	22 05 24
01	42	48.00	177 37 12	22 00 00
01	42	49.00	177 34 48	21 55 48
01	42	50.00	177 31 12	21 49 48
01	42	51.00	177 26 24	21 42 00
01	42	52.00	177 21 36	21 37 12
01	42	53.00	177 18 36	21 34 12
01	42	54.00	177 15 00	21 28 12
01	42	55.00	177 10 48	21 23 24
01	42	56.00	177 07 48	21 18 00
01	42	57.00	177 03 36	21 13 12
01	42	58.00	177 01 48	21 08 24
01	42	59.00	177 01 12	21 04 12
01	43	00.00	176 59 24	21 02 24
01	43	01.00	176 53 24	21 01 12
01	43	02.00	176 47 24	21 01 12
01	43	03.00	176 43 12	21 01 12

PATRICK AFB THEOD. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	40	23.00	192 13 48	37 09 36
01	40	24.00	191 59 24	37 01 12
01	40	25.00	191 50 24	36 50 24
01	40	26.00	191 43 12	36 45 00
01	40	27.00	191 33 00	36 37 12
01	40	28.00	191 22 48	36 28 12
01	40	29.00	191 12 36	36 21 36
01	40	30.00	191 03 36	36 21 36
01	40	31.00	190 54 00	36 09 00
01	40	32.00	190 43 12	35 57 36
01	40	33.00	190 34 12	35 50 24
01	40	34.00	190 25 48	35 42 36
01	40	35.00	190 16 48	35 34 12
01	40	36.00	190 06 24	35 27 36
01	40	37.00	189 57 00	35 21 00
01	40	38.00	189 49 12	35 14 24
01	40	39.00	189 40 12	35 07 48
01	40	40.00	189 33 36	34 59 24
01	40	41.00	189 25 48	34 50 24
01	40	42.00	189 15 36	34 43 12
01	40	43.00	189 07 48	34 36 36
01	40	44.00	188 57 36	34 28 12
01	40	45.00	188 49 48	34 20 24
01	40	46.00	188 42 36	34 13 48
01	40	47.00	188 34 48	34 06 00

HR	MIN	SEC	AZIMUTH	ELEVATION
01	40	48.00	188 25 12	33 58 12
01	40	49.00	188 17 24	33 51 00
01	40	50.00	188 09 00	33 45 00
01	40	51.00	187 58 12	33 38 24
01	40	52.00	187 52 48	33 28 48
01	40	53.00	187 45 00	33 22 48
01	40	54.00	187 36 36	33 14 24
01	40	55.00	187 30 36	33 08 24
01	40	56.00	187 21 00	33 01 12
01	40	57.00	187 15 36	32 54 36
01	40	58.00	187 07 12	32 48 00
01	40	59.00	186 58 48	32 40 12
01	41	00.00	186 51 36	32 33 00
01	41	01.00	186 43 48	32 26 24
01	41	02.00	186 36 36	32 18 36
01	41	03.00	186 31 12	32 12 36
01	41	04.00	186 22 48	32 04 12
01	41	05.00	186 16 12	31 58 48
01	41	06.00	186 09 00	31 52 12
01	41	07.00	186 01 48	31 43 48
01	41	08.00	185 53 24	31 36 36
01	41	09.00	185 47 24	31 30 36
01	41	10.00	185 40 48	31 22 48
01	41	11.00	185 34 12	31 18 00
01	41	12.00	185 27 00	31 10 12

PATRICK AFB THEOD. STA. 1.40 LAT. 28 21 58 N LONG. 279 24 38 E HT 0010 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	41	13.00	185 25 48	31 04 12	01	42	08.00	180 19 48	25 25 12
01	41	14.00	185 12 36	30 58 12	01	42	09.00	180 14 24	25 19 12
01	41	15.00	185 07 12	30 52 12	01	42	10.00	180 10 12	25 13 12
01	41	16.00	184 59 24	30 44 24	01	42	11.00	180 06 36	25 07 12
01	41	17.00	184 55 12	30 36 36	01	42	12.00	180 00 36	25 00 36
01	41	18.00	184 48 00	30 30 36	01	42	13.00	179 57 00	24 55 12
01	41	19.00	184 41 24	30 23 24	01	42	14.00	179 53 24	24 48 36
01	41	20.00	184 36 00	30 16 12	01	42	15.00	179 49 12	24 44 24
01	41	21.00	184 31 12	30 12 00	01	42	16.00	179 42 36	24 39 00
01	41	22.00	184 23 24	30 04 12	01	42	17.00	179 40 12	24 39 00
01	41	23.00	184 16 12	29 58 12	01	42	18.00	179 36 00	24 31 12
01	41	24.00	184 11 24	29 50 24	01	42	19.00	179 32 24	24 19 48
01	41	25.00	184 03 36	29 45 00	01	42	20.00	179 28 12	24 14 24
01	41	26.00	183 57 00	29 38 24	01	42	21.00	179 24 36	24 08 24
01	41	27.00	183 52 12	29 32 24	01	42	22.00	179 19 12	24 04 48
01	41	28.00	183 46 12	29 26 24	01	42	23.00	179 16 12	23 59 24
01	41	29.00	183 40 12	29 18 00	01	42	24.00	179 12 00	23 52 48
01	41	30.00	183 34 12	29 11 24	01	42	25.00	179 08 24	23 48 36
01	41	31.00	183 28 48	29 04 12	01	42	26.00	179 03 36	23 44 24
01	41	32.00	183 22 12	28 59 24	01	42	27.00	178 58 48	23 39 36
01	41	33.00	183 17 24	28 53 24	01	42	28.00	178 54 36	23 33 36
01	41	34.00	183 10 48	28 47 24	01	42	29.00	178 50 24	23 27 00
01	41	35.00	183 04 12	28 40 48	01	42	30.00	178 46 48	23 23 24
01	41	36.00	183 00 00	28 33 36	01	42	31.00	178 42 36	23 16 48
01	41	37.00	182 54 00	28 27 36	01	42	32.00	178 39 36	23 12 00
01	41	38.00	182 48 00	28 22 12	01	42	33.00	178 34 48	23 07 48
01	41	39.00	182 41 24	28 14 24	01	42	34.00	178 31 12	23 02 24
01	41	40.00	182 36 36	28 08 24	01	42	35.00	178 28 12	22 57 00
01	41	41.00	182 31 48	28 01 12	01	42	36.00	178 24 36	22 52 48
01	41	42.00	182 25 12	27 56 24	01	42	37.00	178 19 48	22 46 48
01	41	43.00	182 19 48	27 50 24	01	42	38.00	178 17 24	22 42 00
01	41	44.00	182 16 48	27 44 24	01	42	39.00	178 13 12	22 36 36
01	41	45.00	182 11 24	27 37 48	01	42	40.00	178 09 00	22 31 12
01	41	46.00	182 05 24	27 32 24	01	42	41.00	178 05 24	22 26 24
01	41	47.00	182 01 12	27 25 12	01	42	42.00	178 02 24	22 21 36
01	41	48.00	181 55 48	27 19 48	01	42	43.00	177 58 12	22 16 48
01	41	49.00	181 49 48	27 13 48	01	42	44.00	177 54 00	22 12 36
01	41	50.00	181 45 36	27 07 48	01	42	45.00	177 51 00	22 05 24
01	41	51.00	181 40 12	27 00 36	01	42	46.00	177 48 00	22 01 12
01	41	52.00	181 35 24	26 55 48	01	42	47.00	177 44 24	21 55 48
01	41	53.00	181 28 48	26 50 24	01	42	48.00	177 40 48	21 49 48
01	41	54.00	181 23 24	26 45 36	01	42	49.00	177 37 12	21 44 24
01	41	55.00	181 20 24	26 39 00	01	42	50.00	177 34 12	21 39 36
01	41	56.00	181 15 00	26 33 00	01	42	51.00	177 29 24	21 34 48
01	41	57.00	181 10 12	26 27 00	01	42	52.00	177 25 48	21 30 00
01	41	58.00	181 06 36	26 21 00	01	42	53.00	177 21 00	21 25 12
01	41	59.00	181 01 48	26 15 00	01	42	54.00	177 17 24	21 19 12
01	42	00.00	180 55 48	26 07 12	01	42	55.00	177 14 24	21 15 00
01	42	01.00	180 52 48	26 03 00	01	42	56.00	177 11 24	21 08 24
01	42	02.00	180 46 48	25 57 36	01	42	57.00	177 09 00	21 04 12
01	42	03.00	180 42 36	25 51 00	01	42	58.00	177 03 36	21 00 36
01	42	04.00	180 37 48	25 44 24	01	42	59.00	176 59 24	20 58 12
01	42	05.00	180 33 36	25 38 24	01	43	00.00	176 52 12	20 57 36
01	42	06.00	180 28 12	25 33 36	01	43	01.00	176 45 36	20 57 00
01	42	07.00	180 23 24	25 28 48					

PATRICK AFB THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 279 23 37 E HT 0005 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	44	43.00	316 40 12	22 45 36	01	44	50.00	316 27 00	22 18 00
01	44	44.00	316 40 12	22 43 12	01	44	51.00	316 15 00	21 31 12
01	44	45.00	316 39 00	22 45 36	01	44	52.00	316 16 12	21 32 24
01	44	46.00	316 39 36	22 45 36	01	44	53.00	316 15 00	22 06 00
01	44	47.00	316 40 12	22 45 00	01	44	54.00	316 15 36	22 11 24
01	44	48.00	316 39 36	22 44 24	01	44	55.00	316 16 12	22 32 24
01	44	49.00	316 39 36	22 48 00	01	44	56.00	316 16 12	22 39 00

PATRICK AFB THE00. STA. 1.3 LAT. 28 16 17 N LONG. 279 23 37 E HT 0005 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	44	57.00	315 10 48	22 45 00	01	46	20.00	303 04 48	38 02 24
01	44	58.00	315 45 36	22 46 48	01	46	21.00	302 51 00	38 18 36
01	44	59.00	315 41 24	22 46 12	01	46	22.00	302 39 00	38 31 12
01	45	00.00	315 37 12	23 15 00	01	46	23.00	302 24 00	38 46 48
01	45	01.00	315 36 36	23 24 36	01	46	24.00	302 10 12	38 57 00
01	45	02.00	315 07 12	23 30 36	01	46	25.00	301 57 00	39 07 12
01	45	03.00	314 57 00	23 43 12	01	46	27.00	301 28 48	39 36 00
01	45	04.00	314 51 36	23 54 00	01	46	28.00	301 14 24	39 49 48
01	45	05.00	314 46 48	24 04 48	01	46	29.00	300 57 36	40 01 12
01	45	06.00	314 42 00	24 12 36	01	46	30.00	300 41 24	40 14 24
01	45	07.00	314 36 36	24 24 36	01	46	31.00	300 27 00	40 25 12
01	45	09.00	314 21 36	24 39 00	01	46	34.00	299 45 36	41 04 48
01	45	10.00	314 14 24	24 52 12	01	46	35.00	299 21 36	41 27 00
01	45	11.00	314 07 48	25 04 48	01	46	37.00	298 51 00	41 45 00
01	45	12.00	314 00 00	25 13 12	01	46	38.00	298 33 00	41 58 12
01	45	13.00	313 51 36	25 22 48	01	46	39.00	298 18 00	42 10 48
01	45	15.00	313 39 36	25 35 24	01	46	40.00	297 58 46	42 23 24
01	45	16.00	313 36 00	25 41 24	01	46	41.00	297 41 24	42 36 36
01	45	17.00	313 27 00	25 46 48	01	46	42.00	297 24 36	42 51 00
01	45	18.00	313 17 24	26 13 12	01	46	43.00	297 07 48	43 04 12
01	45	19.00	313 12 00	26 24 00	01	46	44.00	296 49 46	43 15 36
01	45	21.00	312 58 48	26 45 36	01	46	45.00	296 28 12	43 29 24
01	45	22.00	312 49 12	26 57 00	01	46	46.00	296 13 12	43 42 36
01	45	23.00	312 41 24	27 06 36	01	46	47.00	295 53 24	43 56 24
01	45	24.00	312 35 24	27 10 48	01	46	49.00	295 20 24	44 17 24
01	45	25.00	312 27 36	27 21 36	01	46	50.00	295 04 12	44 34 48
01	45	26.00	312 18 00	27 34 12	01	46	51.00	294 41 24	44 51 00
01	45	27.00	312 11 24	27 46 48	01	46	52.00	294 20 24	45 04 12
01	45	28.00	312 03 36	27 57 00	01	46	53.00	294 01 48	45 17 24
01	45	29.00	312 00 36	28 09 36	01	46	54.00	293 39 36	45 27 00
01	45	30.00	311 55 48	28 20 24	01	46	55.00	293 18 00	45 39 36
01	45	31.00	311 43 48	28 31 12	01	46	56.00	293 04 12	45 47 24
01	45	32.00	311 37 48	28 41 24	01	46	57.00	292 36 00	46 04 48
01	45	34.00	311 17 24	29 03 36	01	46	58.00	292 15 36	46 19 12
01	45	36.00	311 02 24	29 22 48	01	46	59.00	291 56 24	46 33 00
01	45	37.00	310 56 24	29 34 12	01	47	00.00	291 31 12	46 45 36
01	45	38.00	310 46 12	29 45 36	01	47	01.00	291 08 24	46 56 24
01	45	39.00	310 35 24	29 54 00	01	47	02.00	290 49 48	47 07 48
01	45	40.00	310 28 12	30 07 12	01	47	04.00	290 06 36	47 34 12
01	45	42.00	310 10 12	30 30 36	01	47	06.00	289 15 00	48 03 00
01	45	43.00	310 00 00	30 42 00	01	47	07.00	288 52 12	48 16 12
01	45	44.00	309 51 00	30 51 00	01	47	08.00	288 27 36	48 26 24
01	45	45.00	309 42 00	30 58 12	01	47	09.00	288 01 12	48 39 00
01	45	46.00	309 31 48	31 12 36	01	47	10.00	287 40 48	48 49 48
01	45	48.00	309 15 36	31 35 24	01	47	11.00	287 15 00	49 00 00
01	45	49.00	309 03 36	31 48 00	01	47	12.00	286 51 36	49 14 24
01	45	50.00	308 54 36	32 02 24	01	47	13.00	286 26 24	49 29 24
01	45	51.00	308 52 48	32 14 24	01	47	14.00	285 59 24	49 42 00
01	45	52.00	308 33 36	32 26 24	01	47	15.00	285 37 12	49 51 00
01	45	54.00	308 13 48	32 43 48	01	47	18.00	284 13 48	50 27 36
01	45	56.00	307 52 12	33 10 12	01	47	19.00	283 48 36	50 40 48
01	45	57.00	307 43 12	33 24 36	01	47	20.00	283 22 12	50 53 24
01	45	58.00	307 32 24	33 36 00	01	47	21.00	282 54 00	51 03 00
01	45	59.00	307 19 48	33 46 12	01	47	23.00	281 58 48	51 24 00
01	46	00.00	307 06 36	33 57 00	01	47	24.00	281 31 12	51 36 00
01	46	01.00	306 55 48	34 09 00	01	47	25.00	281 00 36	51 48 36
01	46	02.00	306 48 00	34 21 00	01	47	26.00	280 30 00	52 00 36
01	46	05.00	306 14 24	34 58 48	01	47	27.00	280 01 12	52 13 12
01	46	07.00	305 49 48	35 26 24	01	47	28.00	279 31 48	52 23 24
01	46	08.00	305 39 00	35 34 48	01	47	29.00	278 58 12	52 34 12
01	46	10.00	305 13 12	36 00 00	01	47	30.00	278 29 24	52 44 24
01	46	11.00	304 57 36	36 14 24	01	47	31.00	277 57 36	52 54 00
01	46	12.00	304 48 00	36 27 36	01	47	32.00	277 25 12	53 03 36
01	46	13.00	304 38 24	36 40 48	01	47	33.00	276 55 12	53 14 24
01	46	14.00	304 24 36	36 54 36	01	47	34.00	276 24 00	53 24 00
01	46	15.00	304 14 24	37 03 36	01	47	35.00	275 55 12	53 33 36
01	46	16.00	303 58 12	37 18 36	01	47	36.00	275 21 36	53 46 12
01	46	17.00	303 46 48	37 29 24	01	47	37.00	274 46 12	53 56 24
01	46	18.00	303 39 00	37 40 12	01	47	38.00	274 12 00	54 04 48
01	46	19.00	303 18 00	37 49 48	01	47	39.00	273 39 36	54 15 00

PATRICK AF8 THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 279 23 37 E HT 0005 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	47	40.00	273 07 12	54 25 48	01	48	53.00	226 03 00	56 31 12
01	47	41.00	272 32 24	54 36 00	01	48	54.00	225 28 12	56 24 00
01	47	42.00	272 02 24	54 39 00	01	48	55.00	224 53 24	56 16 12
01	47	43.00	271 22 48	54 50 24	01	48	56.00	224 21 36	56 11 24
01	47	44.00	270 50 24	54 58 12	01	48	57.00	223 44 24	56 04 12
01	47	45.00	270 13 48	55 06 36	01	48	58.00	223 12 36	55 57 00
01	47	46.00	269 37 12	55 15 36	01	48	59.00	222 38 24	55 52 48
01	47	47.00	269 03 00	55 24 36	01	49	00.00	222 06 36	55 47 24
01	47	48.00	268 28 48	55 31 12	01	49	01.00	221 33 36	55 39 36
01	47	49.00	268 00 00	55 39 00	01	49	02.00	221 01 12	55 33 36
01	47	50.00	267 18 00	55 46 48	01	49	03.00	220 26 24	55 28 12
01	47	52.00	265 57 00	56 02 24	01	49	04.00	219 54 36	55 22 12
01	47	53.00	265 21 36	56 10 48	01	49	05.00	219 26 24	55 13 48
01	47	54.00	264 45 00	56 18 00	01	49	06.00	218 45 36	55 06 36
01	47	55.00	264 10 12	56 24 00	01	49	07.00	218 23 24	55 01 12
01	47	56.00	263 31 48	56 32 24	01	49	08.00	217 53 24	54 51 00
01	47	57.00	262 55 12	56 36 00	01	49	09.00	217 25 12	54 40 48
01	47	58.00	262 10 12	56 41 24	01	49	10.00	216 51 00	54 33 00
01	47	59.00	261 30 00	56 47 24	01	49	11.00	216 21 00	54 24 36
01	48	00.00	260 52 12	56 52 12	01	49	12.00	215 51 00	54 17 24
01	48	01.00	260 15 00	56 58 12	01	49	13.00	215 22 12	54 10 12
01	48	03.00	258 57 36	57 10 12	01	49	15.00	215 28 48	53 54 00
01	48	04.00	258 13 12	57 13 12	01	49	16.00	214 04 12	53 44 24
01	48	05.00	257 41 24	57 14 24	01	49	17.00	213 35 24	53 34 48
01	48	06.00	256 55 12	57 22 12	01	49	18.00	213 05 24	53 25 12
01	48	07.00	256 16 12	57 27 00	01	49	19.00	212 34 36	53 16 12
01	48	08.00	255 38 24	57 31 48	01	49	20.00	212 04 36	53 09 00
01	48	09.00	254 55 12	57 33 36	01	49	21.00	211 34 36	53 01 48
01	48	10.00	254 15 00	57 34 48	01	49	22.00	211 04 36	52 50 48
01	48	11.00	253 35 24	57 38 24	01	49	23.00	210 34 36	52 43 48
01	48	12.00	252 54 36	57 39 36	01	49	25.00	210 03 36	52 24 36
01	48	13.00	252 11 24	57 42 00	01	49	26.00	209 35 24	52 12 36
01	48	14.00	251 31 48	57 46 12	01	49	27.00	209 09 00	52 05 24
01	48	15.00	250 52 12	57 49 48	01	9	28.00	208 51 36	51 57 36
01	48	16.00	250 12 00	57 52 12	01	49	29.00	208 21 36	51 46 12
01	48	17.00	249 33 36	57 54 00	01	49	30.00	208 01 12	51 37 48
01	48	18.00	248 43 36	57 55 46	01	49	31.00	207 37 12	51 27 36
01	48	19.00	248 10 48	57 58 12	01	49	32.00	207 11 24	51 22 12
01	48	20.00	247 26 24	58 00 36	01	49	34.00	206 23 24	51 03 00
01	48	21.00	246 46 48	58 01 48	01	49	35.00	206 01 12	50 54 00
01	48	22.00	246 04 12	58 00 00	01	49	36.00	205 44 24	50 42 00
01	48	24.00	244 41 24	57 58 48	01	49	37.00	205 20 24	50 31 12
01	48	25.00	244 03 36	57 59 24	01	49	39.00	204 30 36	50 12 00
01	48	26.00	243 20 24	57 58 48	01	49	40.00	204 11 24	50 03 00
01	48	27.00	242 42 36	57 58 48	01	49	41.00	203 52 12	49 52 48
01	48	28.00	241 55 48	57 59 24	01	49	42.00	203 35 24	49 40 48
01	48	29.00	241 17 24	57 57 36	01	49	43.00	203 11 24	49 34 48
01	48	30.00	240 33 36	57 56 24	01	49	44.00	202 52 48	49 27 00
01	48	31.00	239 55 48	57 50 24	01	49	45.00	202 33 36	49 15 00
01	48	32.00	239 16 48	57 51 00	01	49	46.00	202 11 24	49 06 00
01	48	33.00	238 40 12	57 49 12	01	49	47.00	201 51 36	48 55 48
01	48	34.00	238 04 12	57 47 24	01	49	48.00	201 32 24	48 46 12
01	48	35.00	237 24 36	57 44 24	01	49	49.00	201 13 12	48 34 48
01	48	36.00	236 39 00	57 41 24	01	49	50.00	200 56 24	48 27 00
01	48	37.00	235 58 48	57 39 00	01	49	51.00	200 37 48	48 20 24
01	48	38.00	235 23 24	57 35 24	01	49	52.00	200 18 00	48 13 48
01	48	39.00	234 42 36	57 32 24	01	49	53.00	199 58 48	47 59 24
01	48	40.00	234 03 00	57 29 24	01	49	55.00	199 27 00	47 36 00
01	48	41.00	233 25 48	57 27 00	01	49	56.00	199 07 48	47 27 00
01	48	42.00	232 48 00	57 24 00	01	49	57.00	198 49 48	47 17 24
01	48	43.00	232 16 48	57 19 48	01	49	59.00	198 15 36	46 58 12
01	48	44.00	231 36 36	57 15 36	01	50	00.00	197 58 12	46 47 24
01	48	45.00	230 54 00	57 11 24	01	50	01.00	197 43 48	46 38 24
01	48	46.00	230 18 00	57 07 12	01	50	02.00	197 28 48	46 27 00
01	48	47.00	229 40 48	57 04 48	01	50	04.00	196 53 24	46 07 12
01	48	48.00	229 02 24	56 59 24	01	50	05.00	196 36 36	45 56 24
01	48	49.00	228 25 48	56 54 00	01	50	06.00	196 24 00	45 48 36
01	48	50.00	227 54 00	56 49 12	01	50	07.00	196 02 24	45 38 24
01	48	51.00	227 21 36	56 44 24	01	50	08.00	195 49 48	45 28 48
01	48	52.00	226 41 24	56 37 12	01	50	09.00	195 36 36	45 17 24

PATRICK AFB THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 279 23 37 E HT 0005 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	50	10.00	195 24 36	45 07 12
01	50	11.00	195 07 48	44 55 12
01	50	12.00	194 55 12	44 49 48
01	50	13.00	194 39 36	44 42 00
01	50	14.00	194 28 48	44 30 36
01	50	15.00	194 12 36	44 24 36
01	50	16.00	193 56 24	44 13 12
01	50	17.00	193 45 36	44 01 48
01	50	18.00	193 30 00	43 52 12
01	50	19.00	193 16 12	43 41 24
01	50	20.00	192 59 24	43 32 24
01	50	21.00	192 48 00	43 23 24
01	50	22.00	192 39 36	43 13 12
01	50	23.00	192 24 36	43 04 48
01	50	24.00	192 12 00	42 55 12
01	50	25.00	191 54 00	42 46 12
01	50	26.00	191 44 24	42 37 48
01	50	27.00	191 33 00	42 27 00
01	50	28.00	191 23 24	42 17 24
01	50	29.00	191 11 24	42 07 48
01	50	30.00	191 02 24	41 57 00
01	50	32.00	190 37 48	41 39 00
01	50	33.00	190 22 12	41 30 00
01	50	34.00	190 12 00	41 19 48
01	50	35.00	190 03 36	41 13 48
01	50	36.00	189 50 24	41 03 00
01	50	37.00	189 38 24	40 53 24
01	50	38.00	189 29 24	40 44 24
01	50	39.00	189 15 00	40 36 00
01	50	40.00	189 04 48	40 25 12
01	50	41.00	188 54 36	40 16 12
01	50	42.00	188 44 24	40 06 36
01	50	45.00	188 15 36	39 39 00
01	50	46.00	188 07 12	39 31 48
01	50	47.00	187 55 12	39 24 00
01	50	48.00	187 46 12	39 14 24
01	50	49.00	187 35 24	39 05 24
01	50	50.00	187 25 48	38 55 48
01	50	51.00	187 15 36	38 48 00
01	50	52.00	187 06 36	38 39 00
01	50	54.00	186 45 00	38 21 00
01	50	55.00	186 37 12	38 10 48
01	50	56.00	186 28 12	38 03 00
01	50	57.00	186 20 24	37 54 00
01	50	58.00	186 10 48	37 46 48
01	50	59.00	186 03 36	37 36 36
01	51	00.00	185 53 24	37 29 24
01	51	01.00	185 45 36	37 22 12
01	51	03.00	185 30 36	37 03 36
01	51	04.00	185 19 48	36 54 36
01	51	05.00	185 11 24	36 47 24
01	51	06.00	185 02 24	36 37 48
01	51	07.00	184 54 00	36 29 24
01	51	08.00	184 49 48	36 22 48
01	51	09.00	184 39 36	36 13 48
01	51	10.00	184 30 00	36 06 00
01	51	11.00	184 22 48	35 57 36
01	51	12.00	184 14 24	35 47 24
01	51	13.00	184 00 36	35 39 36
01	51	14.00	183 54 36	35 33 00
01	51	15.00	183 52 12	35 24 00
01	51	16.00	183 43 12	35 16 48
01	51	17.00	183 38 24	35 09 00
01	51	18.00	183 30 00	35 01 48
01	51	19.00	183 24 00	34 52 48
01	51	20.00	183 16 12	34 44 24
01	51	21.00	183 09 00	34 36 00
01	51	22.00	182 59 24	34 29 24
01	51	23.00	182 52 48	34 22 12
01	51	24.00	182 49 12	34 13 12

HR	MIN	SEC	AZIMUTH	ELEVATION
01	51	25.00	182 39 36	34 04 12
01	51	27.00	182 26 24	33 48 00
01	51	28.00	182 20 24	33 37 48
01	51	29.00	182 14 24	33 26 24
01	51	30.00	182 09 00	33 24 00
01	51	31.00	182 00 00	33 18 36
01	51	32.00	181 54 36	33 11 24
01	51	33.00	181 48 00	33 04 12
01	51	34.00	181 42 36	32 55 48
01	51	37.00	181 19 12	32 34 12
01	51	38.00	181 14 24	32 27 36
01	51	39.00	181 09 36	32 21 00
01	51	40.00	181 04 12	32 12 00
01	51	41.00	180 58 12	32 06 00
01	51	42.00	180 52 12	31 55 48
01	51	43.00	180 46 48	31 48 36
01	51	44.00	180 39 36	31 39 00
01	51	46.00	180 27 00	31 27 00
01	51	47.00	180 21 36	31 19 48
01	51	48.00	180 16 48	31 13 12
01	51	49.00	180 10 48	31 06 36
01	51	50.00	180 07 12	30 59 24
01	51	51.00	180 02 24	30 51 00
01	51	52.00	179 54 36	30 43 48
01	51	53.00	179 49 12	30 37 12
01	51	54.00	179 45 36	30 30 36
01	51	55.00	179 39 36	30 24 00
01	51	56.00	179 31 48	30 18 00
01	51	57.00	179 26 24	30 09 36
01	51	58.00	179 22 48	30 03 36
01	51	59.00	179 18 00	29 57 00
01	52	00.00	179 12 36	29 48 36
01	52	02.00	179 03 00	29 33 00
01	52	03.00	178 57 00	29 27 00
01	52	04.00	178 51 00	29 21 36
01	52	05.00	178 46 12	29 15 36
01	52	06.00	178 42 00	29 09 00
01	52	07.00	178 38 24	29 01 48
01	52	08.00	178 34 12	28 56 24
01	52	09.00	178 28 48	28 48 00
01	52	10.00	178 25 48	28 42 00
01	52	11.00	178 20 24	28 35 24
01	52	12.00	178 14 24	28 26 24
01	52	13.00	178 09 36	28 21 00
01	52	14.00	178 04 12	28 16 12
01	52	15.00	177 58 48	28 09 36
01	52	16.00	177 54 36	28 03 00
01	52	17.00	177 49 48	27 56 24
01	52	18.00	177 46 48	27 49 48
01	52	19.00	177 43 12	27 45 00
01	52	20.00	177 38 24	27 37 12
01	52	21.00	177 34 12	27 31 12
01	52	22.00	177 29 24	27 23 24
01	52	23.00	177 23 24	27 16 12
01	52	24.00	177 18 36	27 11 24
01	52	25.00	177 15 00	27 05 24
01	52	26.00	177 11 24	26 57 36
01	52	28.00	177 04 12	26 46 12
01	52	29.00	177 00 36	26 40 12
01	52	30.00	176 55 48	26 34 12
01	52	31.00	176 51 00	26 27 36
01	52	32.00	176 47 24	26 22 12
01	52	33.00	176 43 12	26 15 00
01	52	34.00	176 38 24	26 09 00
01	52	36.00	176 30 36	25 56 24
01	52	37.00	176 27 36	25 52 12
01	52	38.00	176 23 24	25 48 12
01	52	39.00	176 21 36	25 34 48
01	52	41.00	176 13 12	25 27 00
01	52	42.00	176 07 48	25 21 00

PATRICK AF8 THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 279 23 37 E HT 0005 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	52	43.00	176 04 12	25 15 00
01	52	44.00	176 00 36	25 10 12
01	52	45.00	175 57 00	25 04 12
01	52	46.00	175 53 24	25 00 00
01	52	47.00	175 48 00	24 54 36
01	52	48.00	175 43 48	24 46 48
01	52	49.00	175 41 24	24 40 48
01	52	50.00	175 37 48	24 35 24
01	52	51.00	175 34 12	24 29 24
01	52	52.00	175 33 36	24 25 12
01	52	54.00	175 26 24	24 09 36
01	52	55.00	175 22 12	24 05 24
01	52	56.00	175 17 24	23 59 24
01	52	57.00	175 15 00	23 54 00
01	52	58.00	175 11 24	23 48 36
01	52	59.00	175 07 12	23 43 48
01	53	00.00	175 04 12	23 37 48
01	53	01.00	175 00 36	23 33 36
01	53	02.00	174 57 36	23 29 24
01	53	03.00	174 54 00	23 22 48
01	53	04.00	174 50 24	23 18 00
01	53	05.00	174 47 24	23 12 00
01	53	06.00	174 43 12	23 06 00
01	53	07.00	174 39 36	23 01 48
01	53	08.00	174 35 24	22 55 12
01	53	09.00	174 33 36	22 50 24
01	53	10.00	174 30 36	22 44 24
01	53	11.00	174 28 12	22 39 36
01	53	14.00	174 20 24	22 24 36
01	53	15.00	174 17 24	22 18 36
01	53	16.00	174 13 48	22 14 24
01	53	17.00	174 12 36	22 09 00
01	53	19.00	174 06 36	21 56 24
01	53	20.00	174 04 12	21 51 00

HR	MIN	SEC	AZIMUTH	ELEVATION
01	53	21.00	173 58 48	21 46 12
01	53	22.00	173 55 48	21 42 00
01	53	23.00	173 52 48	21 37 48
01	53	24.00	173 51 00	21 32 24
01	53	25.00	173 49 12	21 27 36
01	53	26.00	173 43 48	21 23 24
01	53	27.00	173 41 24	21 19 12
01	53	28.00	173 39 00	21 14 24
01	53	29.00	173 37 48	21 07 12
01	53	30.00	173 33 00	21 00 00
01	53	31.00	173 30 36	20 54 00
01	53	32.00	173 28 12	20 49 12
01	53	33.00	173 25 12	20 44 24
01	53	34.00	173 22 48	20 39 00
01	53	35.00	173 22 48	20 32 24
01	53	36.00	173 22 48	20 25 48
01	53	37.00	173 22 48	20 19 48
01	53	38.00	173 19 12	20 16 48
01	53	40.00	173 07 48	20 08 24
01	53	41.00	173 06 00	20 04 12
01	53	42.00	173 04 48	20 00 00
01	53	43.00	173 04 48	19 55 48
01	53	44.00	173 04 48	19 50 24
01	53	45.00	173 04 48	19 26 24
01	53	46.00	173 04 12	19 35 24
01	53	47.00	173 01 48	19 28 12
01	53	48.00	172 55 12	19 18 36
01	53	49.00	172 55 12	19 10 48
01	53	50.00	172 54 00	19 05 24
01	53	51.00	172 49 12	19 00 00
01	53	52.00	172 49 12	18 55 12
01	53	53.00	172 45 00	18 49 12
01	53	54.00	172 41 24	18 49 12

PATRICK AFB RADAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	44	31.00	315 26 24	16 57 36
01	44	32.00	315 28 48	17 06 00
01	44	33.00	315 22 12	17 34 48
01	44	34.00	315 10 12	17 34 48
01	44	35.00	315 11 24	17 37 12
01	44	36.00	315 01 48	17 58 12
01	44	37.00	314 59 24	18 03 36
01	44	38.00	314 55 48	18 11 24
01	44	39.00	314 42 00	18 10 48
01	44	40.00	314 46 48	18 16 48
01	44	41.00	314 43 48	18 34 12
01	44	42.00	314 39 36	18 34 12
01	44	43.00	314 26 24	18 39 36
01	44	44.00	314 19 12	18 51 00
01	44	45.00	314 13 48	19 00 00
01	44	46.00	314 10 12	19 03 00
01	44	47.00	313 56 24	19 14 24
01	44	48.00	313 57 00	19 18 00
01	44	49.00	313 52 12	19 25 48
01	44	50.00	313 43 12	19 37 12
01	44	51.00	313 39 00	19 42 00
01	44	52.00	313 38 24	19 55 12
01	44	53.00	313 33 00	20 04 12
01	44	54.00	313 23 24	20 07 48
01	44	55.00	313 24 00	20 21 00
01	44	56.00	313 22 12	20 24 00
01	44	57.00	313 18 36	20 42 00
01	44	58.00	313 00 36	20 52 12

HR	MIN	SEC	AZIMUTH	ELEVATION
01	44	59.00	312 49 48	20 45 36
01	45	00.00	312 44 24	21 01 48
01	45	01.00	312 43 48	21 09 36
01	45	02.00	312 41 24	21 22 48
01	45	03.00	312 22 48	21 31 12
01	45	04.00	312 16 12	21 29 24
01	45	05.00	312 04 12	21 43 48
01	45	06.00	311 56 24	22 00 36
01	45	07.00	311 51 36	22 04 12
01	45	08.00	311 49 48	22 10 48
01	45	09.00	311 50 24	22 29 24
01	45	10.00	311 33 36	22 15 36
01	45	11.00	311 38 24	22 52 12
01	45	12.00	311 37 12	22 35 24
01	45	13.00	311 19 12	22 39 00
01	45	14.00	311 09 36	22 59 24
01	45	15.00	310 57 36	23 13 00
01	45	16.00	310 53 24	23 09 36
01	45	17.00	310 54 00	23 22 12
01	45	18.00	310 47 24	23 39 00
01	45	19.00	310 33 36	23 46 48
01	45	20.00	310 31 48	23 51 36
01	45	21.00	310 13 12	24 01 48
01	45	22.00	310 06 00	24 15 36
01	45	23.00	309 55 48	24 30 00
01	45	24.00	309 54 00	24 34 12
01	45	25.00	309 43 48	24 44 24
01	45	26.00	309 34 48	24 49 48

PATRICK AFB RADAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	45	27.00	309 35 24	25 04 48
01	45	28.00	309 34 12	24 48 00
01	45	29.00	309 05 24	25 18 36
01	45	30.00	309 09 36	25 49 48
01	45	31.00	309 06 00	25 37 48
01	45	32.00	308 39 36	25 52 12
01	45	33.00	308 45 00	25 56 24
01	45	34.00	308 43 48	26 09 36
01	45	35.00	308 25 12	26 14 24
01	45	36.00	308 17 24	26 14 24
01	45	37.00	308 02 24	26 30 36
01	45	38.00	307 50 24	26 48 36
01	45	39.00	307 46 12	26 57 36
01	45	40.00	307 42 36	27 03 36
01	45	41.00	307 31 12	27 16 48
01	45	42.00	307 25 48	27 31 12
01	45	43.00	307 13 12	27 34 48
01	45	44.00	30 03 36	27 51 00
01	45	45.00	306 52 48	28 06 36
01	45	46.00	306 51 00	28 07 12
01	45	47.00	306 45 36	28 07 12
01	45	48.00	306 25 12	28 24 00
01	45	49.00	306 24 00	28 19 48
01	45	50.00	306 15 36	28 30 36
01	45	51.00	305 55 48	28 46 12
01	45	52.00	305 45 36	28 52 48
01	45	53.00	305 44 24	29 12 36
01	45	54.00	305 20 24	29 11 24
01	45	55.00	305 10 12	29 22 48
01	45	56.00	305 06 36	29 43 12
01	45	57.00	305 03 36	29 48 36
01	45	58.00	304 38 24	29 58 48
01	45	59.00	304 33 36	30 10 12
01	46	00.00	304 17 24	30 25 12
01	46	01.00	304 11 24	30 42 00
01	46	02.00	303 57 00	30 52 48
01	46	03.00	303 45 00	31 07 12
01	46	04.00	303 45 36	31 14 24
01	46	05.00	303 36 00	31 29 24
01	46	06.00	303 22 48	31 16 48
01	46	07.00	303 03 36	31 39 36
01	46	08.00	302 52 48	31 53 24
01	46	09.00	302 52 12	31 43 48
01	46	10.00	302 46 48	32 29 24
01	46	11.00	302 04 12	33 00 00
01	46	12.00	302 07 12	32 42 36
01	46	13.00	302 01 48	33 00 36
01	46	14.00	301 27 00	33 25 48
01	46	15.00	300 59 24	33 21 36
01	46	16.00	300 43 48	33 25 48
01	46	17.00	300 52 12	33 35 24
01	46	18.00	300 48 36	33 39 00
01	46	19.00	300 48 00	33 51 00
01	46	20.00	300 46 12	34 00 00
01	46	21.00	300 31 48	33 57 36
01	46	22.00	299 51 36	33 59 24
01	46	23.00	299 55 12	33 52 48
01	46	24.00	299 42 36	34 31 48
01	46	25.00	299 44 24	35 10 12
01	46	26.00	299 43 12	34 46 48
01	46	27.00	299 20 24	35 12 00
01	46	28.00	298 49 48	34 46 12
01	46	29.00	298 32 24	35 06 36
01	46	30.00	297 46 12	35 24 00
01	46	31.00	297 22 46	35 20 24
01	46	32.00	294 20 24	35 36 00
01	46	33.00	297 27 36	35 43 48
01	46	34.00	297 28 12	36 18 36
01	46	35.00	297 22 48	36 24 00
01	46	36.00	297 19 48	36 35 24

HR	MIN	SEC	AZIMUTH	ELEVATION
01	46	37.00	296 40 12	36 34 48
01	46	38.00	296 12 36	37 00 36
01	46	39.00	295 30 00	37 07 48
01	46	40.00	295 13 12	37 16 48
01	46	41.00	295 10 12	38 21 00
01	46	42.00	295 11 24	38 26 24
01	46	43.00	295 14 24	38 43 12
01	46	44.00	295 15 00	38 49 12
01	46	45.00	294 37 12	37 58 48
01	46	46.00	294 54 00	38 04 12
01	46	47.00	294 09 36	38 56 24
01	46	48.00	293 30 00	39 04 12
01	46	49.00	293 38 24	38 33 00
01	46	50.00	293 28 12	38 56 24
01	46	51.00	292 43 12	39 45 36
01	46	52.00	292 08 24	39 34 48
01	46	53.00	292 28 48	39 16 48
01	46	54.00	292 54 00	39 48 36
01	46	55.00	291 42 36	40 36 36
01	46	56.00	290 58 12	40 29 24
01	46	57.00	291 30 36	40 04 12
01	46	58.00	291 29 24	40 37 48
01	46	59.00	290 33 00	40 48 00
01	47	00.00	290 24 00	40 45 00
01	47	01.00	290 00 00	41 18 36
01	47	02.00	289 42 36	41 27 36
01	47	03.00	289 30 36	41 36 36
01	47	04.00	289 28 48	41 51 00
01	47	05.00	288 51 00	42 03 00
01	47	06.00	288 27 00	42 10 12
01	47	07.00	288 12 00	42 20 24
01	47	08.00	287 46 12	42 34 12
01	47	09.00	287 42 36	42 46 12
01	47	10.00	287 10 12	42 39 00
01	47	11.00	287 06 36	42 51 00
01	47	12.00	286 16 48	43 04 48
01	47	13.00	286 22 48	42 52 48
01	47	14.00	285 58 48	43 22 48
01	47	15.00	285 10 12	43 43 12
01	47	16.00	285 15 36	43 50 24
01	47	17.00	284 49 12	44 00 36
01	47	18.00	284 27 36	44 15 00
01	47	19.00	284 16 12	44 14 24
01	47	20.00	283 46 12	44 23 24
01	47	21.00	283 28 12	44 40 12
01	47	22.00	282 51 36	44 39 36
01	47	23.00	282 24 36	44 53 24
01	47	24.00	281 58 48	45 10 12
01	47	25.00	281 30 00	45 25 12
01	47	26.00	281 10 12	45 32 24
01	47	27.00	280 50 24	45 47 24
01	47	28.00	280 36 36	45 56 24
01	47	29.00	280 06 00	46 05 24
01	47	30.00	279 28 12	46 11 24
01	47	31.00	278 57 36	46 25 12
01	47	32.00	278 29 24	46 30 00
01	47	33.00	277 59 24	46 28 12
01	47	34.00	277 50 24	46 40 48
01	47	35.00	277 37 12	46 57 00
01	47	36.00	277 10 48	46 58 48
01	47	37.00	276 47 24	47 12 00
01	47	38.00	275 57 36	47 18 36
01	47	39.00	276 17 24	47 04 12
01	47	40.00	276 01 48	47 40 12
01	47	41.00	274 42 36	48 21 36
01	47	42.00	274 09 00	48 05 24
01	47	43.00	274 40 48	47 43 12
01	47	44.00	274 27 36	48 18 00
01	47	45.00	273 09 36	48 27 00
01	47	46.00	272 57 00	48 18 00

PATRICK AFB RADAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	47	47.00	272 29 24	48 40 12	01	48	57.00	235 57 36	51 48 00
01	47	48.00	272 02 24	48 45 00	01	48	58.00	235 29 24	51 40 48
01	47	49.00	272 01 48	48 38 24	01	48	59.00	235 25 48	51 19 12
01	47	50.00	271 12 00	49 05 24	01	49	00.00	234 04 48	51 29 24
01	47	51.00	270 43 48	49 13 48	01	49	01.00	233 49 12	51 25 48
01	47	52.00	270 14 24	49 07 48	01	49	02.00	233 24 36	51 15 00
01	47	53.00	269 48 00	49 19 48	01	49	03.00	232 45 00	51 13 12
01	47	54.00	269 21 36	49 27 36	01	49	04.00	232 19 12	51 15 36
01	47	55.00	268 45 00	49 30 36	01	49	05.00	231 42 00	51 19 48
01	47	56.00	268 12 36	49 34 12	01	49	06.00	231 15 00	51 18 00
01	47	57.00	267 47 24	49 46 48	01	49	07.00	230 40 48	51 13 12
01	47	58.00	267 23 24	49 49 12	01	49	08.00	230 39 36	51 12 00
01	47	59.00	266 55 48	49 59 24	01	49	09.00	230 07 48	50 58 12
01	48	00.00	266 33 36	50 00 36	01	49	10.00	229 18 36	50 45 36
01	48	01.00	265 57 36	49 57 36	01	49	11.00	228 06 36	50 45 36
01	48	02.00	265 12 00	50 07 12	01	49	12.00	228 18 00	50 47 24
01	48	03.00	264 53 24	50 26 24	01	49	13.00	228 16 48	50 49 48
01	48	04.00	264 20 24	50 28 48	01	49	14.00	227 51 36	50 39 00
01	48	05.00	263 56 24	50 32 24	01	49	15.00	227 22 48	50 43 48
01	48	06.00	263 22 48	50 36 36	01	49	16.00	226 31 48	50 42 00
01	48	07.00	262 28 48	50 35 24	01	49	17.00	226 02 24	50 20 24
01	48	08.00	262 09 00	50 50 24	01	49	18.00	225 46 48	50 18 36
01	48	09.00	261 10 12	50 52 12	01	49	19.00	225 29 24	50 21 00
01	48	10.00	260 22 12	50 46 12	01	49	20.00	224 47 24	50 07 48
01	48	11.00	260 19 12	50 54 00	01	49	21.00	224 27 00	50 07 48
01	48	12.00	260 00 00	51 04 48	01	49	22.00	223 51 36	50 05 24
01	48	13.00	259 39 00	51 09 36	01	49	23.00	223 26 24	50 01 12
01	48	14.00	259 05 24	51 10 48	01	49	24.00	222 57 36	50 00 00
01	48	15.00	258 55 12	51 11 24	01	49	25.00	222 37 48	49 54 36
01	48	16.00	258 17 24	51 30 36	01	49	26.00	222 00 36	49 35 24
01	48	17.00	257 37 12	51 34 12	01	49	27.00	221 38 24	49 33 00
01	48	18.00	257 19 12	51 28 48	01	49	28.00	221 22 12	49 35 24
01	48	19.00	256 42 00	51 39 00	01	49	29.00	220 46 48	49 10 12
01	48	20.00	256 35 24	51 46 48	01	49	30.00	220 47 24	48 57 00
01	48	21.00	256 05 24	51 46 48	01	49	31.00	220 37 48	48 48 00
01	48	22.00	255 27 00	51 42 36	01	49	32.00	219 52 12	48 40 12
01	48	23.00	254 39 36	51 47 24	01	49	33.00	219 28 48	48 49 12
01	48	24.00	253 49 48	51 48 36	01	49	34.00	219 03 00	48 54 36
01	48	25.00	253 12 00	51 45 00	01	49	35.00	218 28 48	48 48 36
01	48	26.00	252 43 48	51 53 24	01	49	36.00	217 57 00	48 45 00
01	48	27.00	251 55 12	51 59 24	01	49	37.00	217 32 24	48 44 24
01	48	28.00	251 33 36	51 57 36	01	49	38.00	217 24 36	48 34 48
01	48	29.00	251 33 36	51 52 48	01	49	39.00	217 24 36	47 47 24
01	48	30.00	250 49 12	52 03 36	01	49	40.00	217 21 36	48 30 36
01	48	31.00	249 45 00	51 56 24	01	49	41.00	216 42 36	48 10 48
01	48	32.00	248 56 24	51 50 24	01	49	42.00	215 52 12	47 59 24
01	48	33.00	248 45 36	51 40 48	01	49	43.00	215 31 12	48 06 00
01	48	34.00	248 21 36	51 33 00	01	49	44.00	215 10 12	47 57 36
01	48	35.00	247 22 48	52 02 24	01	49	45.00	214 48 36	47 49 12
01	48	36.00	247 12 36	52 00 36	01	49	46.00	214 28 48	47 40 12
01	48	37.00	247 08 24	51 52 48	01	49	47.00	214 00 36	47 30 36
01	48	38.00	246 11 24	51 58 12	01	49	48.00	213 58 12	47 16 48
01	48	39.00	245 42 36	51 55 12	01	49	49.00	213 28 12	47 10 48
01	48	40.00	245 09 36	51 52 12	01	49	50.00	212 57 36	47 06 36
01	48	41.00	250 41 24	52 01 12	01	49	51.00	212 37 48	46 57 36
01	48	42.00	243 48 00	52 04 48	01	49	52.00	212 09 36	46 47 24
01	48	43.00	243 03 36	52 09 00	01	49	53.00	211 52 12	46 39 36
01	48	44.00	242 12 00	52 12 00	01	49	54.00	211 36 36	46 33 00
01	48	45.00	242 09 36	52 12 00	01	49	55.00	211 36 36	46 18 36
01	48	46.00	241 41 24	52 11 24	01	49	56.00	211 30 00	45 55 48
01	48	47.00	241 07 48	52 12 00	01	49	57.00	210 39 36	46 13 48
01	48	48.00	240 28 12	52 13 48	01	49	58.00	210 34 48	45 42 36
01	48	49.00	240 22 12	52 14 24	01	49	59.00	209 55 48	45 47 24
01	48	50.00	239 36 36	52 12 00	01	50	00.00	209 43 48	45 10 12
01	48	51.00	239 10 12	52 05 24	01	50	01.00	209 40 12	45 33 36
01	48	52.00	238 28 48	51 54 36	01	50	02.00	208 49 48	45 49 12
01	48	53.00	238 12 00	51 58 48	01	50	03.00	208 51 36	45 23 24
01	48	54.00	237 30 00	52 03 00	01	50	04.00	208 14 24	45 30 36
01	48	55.00	236 52 48	51 55 12	01	50	05.00	208 18 36	45 16 48
01	48	56.00	236 36 00	51 51 00	01	50	06.00	208 00 36	45 08 24

PATRICK AFB RADAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	50	07.00	207 46 48	44 57 00	01	51	17.00	192 01 48	35 56 24
01	50	08.00	207 29 24	44 43 48	01	51	18.00	191 49 12	35 37 48
01	50	09.00	207 02 24	44 39 00	01	51	19.00	191 36 36	35 36 36
01	50	10.00	206 55 12	44 23 24	01	51	20.00	191 33 00	35 24 00
01	50	11.00	206 21 00	44 20 24	01	51	21.00	191 34 48	35 18 00
01	50	12.00	205 48 36	44 24 36	01	51	22.00	191 33 36	35 02 24
01	50	13.00	205 43 12	44 07 12	01	51	23.00	191 33 36	35 14 24
01	50	14.00	205 36 00	43 59 24	01	51	24.00	191 29 24	34 58 12
01	50	15.00	205 28 12	43 51 36	01	51	25.00	190 46 48	34 53 24
01	50	16.00	205 22 48	43 25 48	01	51	26.00	190 52 48	34 54 00
01	50	17.00	204 42 00	43 52 48	01	51	27.00	190 50 24	34 30 36
01	50	18.00	204 25 12	43 26 24	01	51	28.00	190 49 48	34 31 48
01	50	19.00	203 49 12	43 11 24	01	51	29.00	190 31 48	34 21 36
01	50	20.00	203 42 00	43 16 12	01	51	30.00	190 18 00	34 15 36
01	50	21.00	203 30 36	43 10 12	01	51	31.00	190 09 36	34 05 24
01	50	22.00	203 12 36	42 52 48	01	51	32.00	189 58 48	33 58 48
01	50	23.00	202 54 36	42 42 36	01	51	33.00	189 54 00	33 49 48
01	50	24.00	202 46 12	42 36 00	01	51	34.00	189 52 48	33 43 12
01	50	25.00	202 43 48	42 33 36	01	51	35.00	189 45 00	33 35 24
01	50	26.00	202 38 24	42 21 00	01	51	36.00	189 22 12	33 27 00
01	50	27.00	202 12 36	42 07 12	01	51	37.00	189 07 48	33 26 24
01	50	28.00	201 58 12	42 06 00	01	51	38.00	189 11 24	33 01 48
01	50	29.00	201 43 48	42 01 48	01	51	39.00	189 09 36	33 04 48
01	50	30.00	201 31 48	41 48 36	01	51	40.00	189 06 36	32 58 48
01	50	31.00	201 10 12	41 42 36	01	51	41.00	188 55 48	32 45 36
01	50	32.00	200 39 00	41 49 12	01	51	42.00	188 45 36	32 54 00
01	50	33.00	200 34 12	41 42 36	01	51	43.00	188 34 48	32 47 24
01	50	34.00	200 26 24	41 23 24	01	51	44.00	188 18 36	32 29 24
01	50	35.00	200 21 00	41 04 12	01	51	45.00	188 15 00	32 29 24
01	50	36.00	200 04 48	40 58 48	01	51	46.00	188 10 12	32 20 24
01	50	37.00	199 47 24	40 51 36	01	51	47.00	188 09 36	32 04 48
01	50	38.00	199 31 12	40 39 00	01	51	48.00	187 55 48	32 17 24
01	50	39.00	199 26 24	40 28 12	01	51	49.00	187 43 48	31 51 00
01	50	40.00	199 01 12	40 37 12	01	51	50.00	187 34 48	31 43 12
01	50	41.00	198 45 00	40 34 48	01	51	51.00	187 26 24	31 49 48
01	50	42.00	198 41 24	40 18 00	01	51	52.00	187 17 24	31 35 24
01	50	43.00	198 13 12	40 09 00	01	51	53.00	187 11 24	31 27 00
01	50	44.00	198 03 00	40 01 12	01	51	54.00	186 56 48	31 22 48
01	50	45.00	197 54 00	39 51 00	01	51	55.00	186 55 48	31 06 00
01	50	46.00	197 51 36	39 42 36	01	51	56.00	186 57 36	31 06 36
01	50	47.00	197 47 24	39 32 24	01	51	57.00	186 55 48	31 18 00
01	50	48.00	197 15 00	39 23 24	01	51	58.00	186 53 24	31 03 36
01	50	49.00	197 15 36	39 16 48	01	51	59.00	186 40 48	30 46 48
01	50	50.00	196 51 00	39 06 36	01	52	00.00	186 24 36	30 31 12
01	50	51.00	196 36 36	38 54 36	01	52	01.00	186 22 48	30 24 36
01	50	52.00	196 21 00	39 01 48	01	52	02.00	186 17 24	30 30 00
01	50	53.00	196 20 24	39 03 00	01	52	03.00	186 18 00	30 41 24
01	50	54.00	196 21 00	38 37 48	01	52	04.00	186 15 00	29 56 24
01	50	55.00	196 11 24	38 36 00	01	52	05.00	186 12 36	30 00 00
01	50	56.00	196 01 12	38 28 12	01	52	06.00	185 39 00	30 09 36
01	50	57.00	195 59 24	37 54 36	01	52	07.00	185 42 36	30 00 00
01	50	58.00	195 38 24	38 04 12	01	52	08.00	185 21 00	29 51 36
01	50	59.00	195 25 48	38 10 12	01	52	09.00	185 22 48	29 43 12
01	51	00.00	195 08 24	38 03 00	01	52	10.00	185 18 00	29 18 36
01	51	01.00	195 03 36	37 59 24	01	52	11.00	185 10 12	29 29 24
01	51	02.00	194 52 12	37 46 48	01	52	12.00	185 06 00	29 48 00
01	51	03.00	194 39 00	37 32 24	01	52	13.00	185 04 12	29 36 36
01	51	04.00	194 26 24	37 28 12	01	52	14.00	184 53 24	29 31 12
01	51	05.00	194 11 24	37 22 48	01	52	15.00	184 45 00	29 27 36
01	51	06.00	193 58 48	37 18 00	01	52	16.00	184 45 36	29 16 12
01	51	07.00	193 46 12	37 09 36	01	52	17.00	184 43 48	29 22 48
01	51	08.00	193 33 00	37 04 12	01	52	18.00	184 22 48	29 07 48
01	51	09.00	193 19 12	36 57 00	01	52	19.00	184 22 48	28 42 00
01	51	10.00	193 16 48	36 45 00	01	52	20.00	184 13 12	28 54 00
01	51	11.00	193 12 00	36 21 36	01	52	21.00	184 06 00	28 52 48
01	51	12.00	192 52 12	36 22 48	01	52	22.00	184 05 24	28 37 12
01	51	13.00	192 37 48	36 34 12	01	52	23.00	184 01 48	28 31 48
01	51	14.00	192 16 12	36 21 36	01	52	24.00	183 57 00	28 24 36
01	51	15.00	192 12 36	36 07 12	01	52	25.00	183 46 12	28 05 24
01	51	16.00	192 09 36	36 06 36	01	52	26.00	183 45 36	28 02 24

PATRICK AFB RADAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

17 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	52	27.00	183 43 48	28 09 00
01	52	28.00	183 29 24	27 45 00
01	52	29.00	183 20 24	27 34 48
01	52	30.00	183 17 24	27 42 00
01	52	31.00	183 10 48	27 39 00
01	52	32.00	183 00 36	27 36 00
01	52	33.00	182 58 48	27 34 12
01	52	34.00	182 51 36	27 16 12
01	52	35.00	182 46 12	27 10 48
01	52	36.00	182 42 36	27 07 12
01	52	37.00	182 37 48	27 01 12
01	52	38.00	182 34 48	26 52 48
01	52	39.00	182 23 24	26 42 36
01	52	40.00	182 18 36	26 39 36
01	52	41.00	182 17 24	26 39 00
01	52	42.00	182 17 24	26 37 48
01	52	43.00	182 16 12	26 16 48
01	52	44.00	182 15 00	26 16 12
01	52	45.00	181 57 00	26 12 00
01	52	46.00	181 52 48	26 13 12
01	52	47.00	181 50 24	26 09 00
01	52	48.00	181 42 36	25 53 24
01	52	49.00	181 34 12	25 48 36
01	52	50.00	181 32 24	25 43 48
01	52	51.00	181 30 36	25 37 12
01	52	52.00	181 26 24	25 36 36
01	52	53.00	181 24 00	25 31 12
01	52	54.00	181 19 12	25 24 00
01	52	55.00	181 13 12	25 15 00
01	52	56.00	181 08 24	25 04 48

HR	MIN	SEC	AZIMUTH	ELEVATION
01	52	57.00	181 04 48	25 04 48
01	52	58.00	181 03 00	25 09 00
01	52	59.00	181 00 36	25 07 12
01	53	00.00	180 56 24	24 57 00
01	53	01.00	180 52 48	24 49 12
01	53	02.00	180 45 36	24 36 36
01	53	03.00	180 40 12	24 24 36
01	53	04.00	180 40 48	24 27 36
01	53	05.00	180 34 12	24 43 48
01	53	06.00	180 20 24	24 27 00
01	53	07.00	180 17 24	24 19 12
01	53	08.00	180 13 48	24 15 00
01	53	09.00	180 13 12	24 07 12
01	53	10.00	180 12 36	24 00 00
01	53	11.00	180 12 00	23 48 36
01	53	12.00	180 11 24	23 43 48
01	53	13.00	180 07 12	23 40 12
01	53	14.00	179 57 00	23 32 24
01	53	15.00	179 51 00	23 30 00
01	53	16.00	179 48 36	23 21 00
01	53	17.00	179 45 00	23 18 36
01	53	18.00	179 41 24	23 15 36
01	53	19.00	179 28 12	22 32 24
01	53	20.00	179 27 36	22 50 24
01	53	21.00	179 25 46	22 43 48
01	53	22.00	179 25 12	20 57 00
01	53	23.00	179 25 12	22 10 48
01	53	24.00	179 23 24	22 05 24
01	53	25.00	179 23 24	21 45 36
01	53	26.00	179 22 48	22 50 24

PATRICK AFB OPT. TR STA. 7.2 LAT. 21 26 00 N LONG. 286 51 17 E HT 0025 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
00	31	50.00	149 13 12	46 31 48
00	31	51.00	149 26 24	46 30 00
00	31	52.00	149 19 12	46 12 00
00	31	53.00	149 19 12	45 49 12
00	31	54.00	149 19 12	45 49 12
00	31	55.00	149 25 12	45 39 36
00	31	56.00	149 25 12	45 30 36
00	31	57.00	149 31 12	44 57 00
00	31	58.00	149 58 12	45 54 00
00	31	59.00	149 54 36	45 15 00
00	32	00.00	149 44 24	45 06 00
00	32	01.00	149 42 36	44 49 12
00	32	02.00	149 42 36	44 49 12
00	32	03.00	149 42 36	44 24 36
00	32	04.00	149 45 36	44 43 12
00	32	05.00	149 50 24	44 32 24
00	32	06.00	149 54 36	44 03 00
00	32	07.00	149 54 36	43 46 12
00	32	09.00	149 58 12	43 32 24
00	32	10.00	149 59 24	43 21 00
00	32	11.00	150 04 12	43 17 24
00	32	12.00	150 04 12	42 57 00
00	32	13.00	150 06 36	42 39 36
00	32	14.00	150 01 48	42 18 36
00	32	15.00	150 03 36	42 07 12
00	32	16.00	150 09 00	42 12 00
00	32	17.00	150 10 12	42 05 24
00	32	18.00	150 09 00	41 56 24
00	32	19.00	150 21 36	41 28 48
00	32	20.00	150 21 36	41 24 36
00	32	21.00	150 29 24	41 06 36
00	32	22.00	150 24 00	40 58 12

HR	MIN	SEC	AZIMUTH	ELEVATION
00	32	23.00	150 24 00	41 09 36
00	32	24.00	150 30 00	41 00 36
00	32	25.00	150 55 12	41 00 00
00	32	26.00	151 19 48	40 47 24
00	32	27.00	151 54 00	40 47 24
00	32	28.00	152 04 48	40 33 36
00	32	29.00	152 15 36	40 07 12
00	32	30.00	152 28 48	39 34 48
00	32	31.00	152 21 00	39 40 12
00	32	32.00	152 21 00	39 35 24
00	32	33.00	152 21 00	39 19 12
00	32	34.00	152 21 00	38 52 12
00	32	35.00	152 19 48	38 52 12
00	32	36.00	152 22 12	37 39 36
00	32	37.00	152 22 12	37 22 12
00	32	38.00	152 24 00	37 28 12
00	32	39.00	152 19 12	36 03 36
00	32	40.00	152 21 36	35 14 24
00	32	41.00	152 21 36	34 57 36
00	32	42.00	152 21 00	35 34 12
00	32	43.00	152 19 48	35 25 12
00	32	44.00	152 03 00	35 24 00
00	32	45.00	151 54 00	35 05 24
00	32	46.00	152 00 00	34 15 00
00	32	47.00	152 19 12	33 52 12
00	32	48.00	152 21 00	33 31 12
00	32	49.00	152 12 00	33 07 48
00	32	50.00	151 56 24	34 58 12
00	32	51.00	152 54 36	32 27 36
00	32	52.00	153 24 36	33 30 00
00	32	53.00	152 36 36	34 28 12
00	32	54.00	153 24 36	34 34 12

PATRICK AFB OPT. TR STA. 7.2 LAT. 21 26 00 N LONG. 288 51 17 E HT 0025 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	32	55.00	154 36 36	34 28 12	00	33	48.00	154 28 48	25 45 36
00	32	56.00	154 30 00	34 38 24	00	33	49.00	150 00 00	25 09 36
00	32	57.00	152 03 00	32 43 48	00	33	50.00	148 24 00	25 13 12
00	32	58.00	151 51 00	32 03 36	00	33	51.00	148 14 24	27 43 12
00	32	59.00	151 40 48	32 15 00	00	33	52.00	149 13 48	29 54 00
00	33	00.00	151 07 12	31 48 36	00	33	53.00	151 27 36	27 55 12
00	33	01.00	151 36 00	30 50 24	00	33	54.00	152 49 12	25 37 12
00	33	02.00	151 27 00	30 19 48	00	33	55.00	154 52 48	25 04 48
00	33	03.00	151 22 12	29 34 48	00	33	56.00	156 12 00	24 04 12
00	33	04.00	151 24 00	29 34 48	00	33	57.00	157 09 36	24 14 24
00	33	05.00	151 19 48	29 21 36	00	33	58.00	157 02 24	28 38 24
00	33	06.00	151 19 12	29 17 24	00	33	59.00	156 37 48	30 06 00
00	33	07.00	151 19 12	29 17 24	00	34	00.00	156 07 48	30 39 00
00	33	08.00	151 19 12	29 16 12	00	34	01.00	157 44 24	27 31 48
00	33	09.00	151 13 48	28 49 48	00	34	02.00	158 27 36	28 18 36
00	33	10.00	151 09 00	29 04 48	00	34	03.00	158 39 00	28 20 24
00	33	11.00	151 04 48	29 06 00	00	34	04.00	158 39 36	28 20 24
00	33	12.00	151 04 48	29 06 00	00	34	05.00	158 39 00	28 16 12
00	33	13.00	151 19 12	29 01 12	00	34	06.00	158 40 48	28 22 48
00	33	14.00	151 16 48	28 57 36	00	34	07.00	158 40 48	28 25 12
00	33	15.00	151 17 24	29 13 48	00	34	08.00	158 40 48	28 23 24
00	33	16.00	151 33 36	29 19 12	00	34	09.00	156 40 48	28 17 24
00	33	17.00	151 18 00	29 11 24	00	34	10.00	158 34 48	28 00 00
00	33	18.00	151 27 36	29 08 24	00	34	11.00	158 25 48	28 03 36
00	33	19.00	151 22 12	28 56 24	00	34	12.00	158 43 36	26 16 12
00	33	20.00	151 19 48	29 16 12	00	34	13.00	157 37 12	24 44 24
00	33	21.00	151 28 12	29 19 12	00	34	14.00	156 27 00	27 12 00
00	33	22.00	151 22 48	29 15 00	00	34	15.00	156 44 24	29 05 24
00	33	23.00	151 18 00	29 04 12	00	34	16.00	157 19 12	28 43 48
00	33	24.00	151 18 00	29 11 24	00	34	17.00	156 51 00	23 48 00
00	33	25.00	151 18 00	29 04 12	00	34	18.00	156 42 00	23 10 12
00	33	26.00	151 18 00	29 08 24	00	34	19.00	156 04 12	21 58 12
00	33	27.00	151 21 00	29 09 36	00	34	20.00	153 36 00	22 26 24
00	33	28.00	151 17 24	29 02 24	00	34	21.00	154 00 00	22 51 36
00	33	29.00	151 18 00	29 05 24	00	34	22.00	156 51 00	22 25 12
00	33	30.00	151 18 36	29 06 00	00	34	23.00	157 43 48	22 00 36
00	33	31.00	151 31 12	29 09 00	00	34	24.00	157 52 12	22 25 12
00	33	32.00	151 21 00	29 08 24	00	34	25.00	158 22 48	22 01 12
00	33	33.00	151 13 12	28 52 48	00	34	26.00	158 22 48	22 18 00
00	33	34.00	151 15 36	29 14 24	00	34	27.00	159 18 00	22 39 00
00	33	35.00	151 22 48	29 22 12	00	34	28.00	161 30 00	22 40 12
00	33	36.00	151 24 36	29 15 00	00	34	29.00	164 30 00	21 55 12
00	33	37.00	152 03 00	27 32 24	00	34	30.00	168 21 36	20 54 36
00	33	38.00	152 16 12	26 56 24	00	34	31.00	168 45 36	21 02 24
00	33	39.00	151 13 12	27 17 24	00	34	32.00	170 16 36	21 59 24
00	33	40.00	151 21 00	26 30 36	00	34	33.00	168 21 00	24 23 24
00	33	41.00	152 22 12	25 52 12	00	34	34.00	167 27 36	21 53 12
00	33	42.00	152 51 36	26 03 00	00	34	35.00	167 21 00	20 49 48
00	33	43.00	152 47 24	27 42 36	00	34	36.00	166 39 00	22 15 00
00	33	44.00	152 15 48	29 13 12	00	34	37.00	166 11 24	25 27 00
00	33	45.00	152 13 48	29 04 48	00	34	38.00	165 51 36	21 51 36
00	33	46.00	152 12 36	29 07 12	00	34	39.00	162 41 24	24 39 36
00	33	47.00	154 09 00	27 06 00					

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	39	17.00	009 05 24	33 10 12	00	39	26.00	011 17 24	34 49 12
00	39	18.00	009 24 36	33 22 48	00	39	27.00	011 34 48	35 01 48
00	39	19.00	009 42 00	33 30 36	00	39	28.00	011 48 36	35 14 24
00	39	20.00	009 47 24	33 39 00	00	39	29.00	012 05 24	35 25 12
00	39	21.00	010 02 24	33 47 24	00	39	30.00	012 21 00	35 35 24
00	39	22.00	010 17 24	33 58 12	00	39	31.00	012 37 48	35 49 12
00	39	23.00	010 34 48	34 15 36	00	39	32.00	012 54 36	35 59 24
00	39	24.00	010 45 00	34 28 12	00	39	33.00	013 11 24	36 11 24
00	39	25.00	011 03 36	34 36 00	00	39	34.00	013 28 12	36 24 00

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	39	35.00	013 43 48	36 37 12	00	40	45.00	041 53 24	48 43 12
00	39	36.00	014 03 00	36 52 48	00	40	46.00	042 25 12	48 49 12
00	39	37.00	014 19 12	37 02 24	00	40	47.00	042 58 48	48 55 48
00	39	38.00	014 38 24	37 11 24	00	40	48.00	043 31 12	49 03 36
00	39	39.00	014 49 12	37 23 24	00	40	49.00	044 03 00	49 11 24
00	39	40.00	015 08 24	37 36 36	00	40	50.00	044 33 36	49 18 36
00	39	41.00	015 29 24	37 49 12	00	40	51.00	045 07 12	49 25 12
00	39	42.00	015 45 36	37 57 36	00	40	52.00	045 39 36	49 31 12
00	39	43.00	016 03 00	38 04 48	00	40	53.00	046 13 12	49 37 12
00	39	44.00	016 24 36	38 18 36	00	40	54.00	046 46 12	49 43 12
00	39	45.00	016 43 12	38 31 12	00	40	55.00	047 20 24	49 48 36
00	39	46.00	017 03 00	38 45 00	00	40	56.00	047 53 24	49 52 48
00	39	47.00	017 22 12	38 58 48	00	40	57.00	048 28 12	49 59 24
00	39	48.00	017 41 24	39 07 12	00	40	58.00	049 00 00	50 06 36
00	39	49.00	017 58 48	39 18 00	00	40	59.00	049 35 24	50 12 36
00	39	50.00	018 20 24	39 31 12	00	41	00.00	050 10 12	50 16 12
00	39	51.00	018 40 12	39 44 24	00	41	01.00	050 42 36	50 21 36
00	39	52.00	018 59 24	39 54 00	00	41	02.00	051 16 48	50 25 12
00	39	53.00	019 19 48	40 04 48	00	41	03.00	051 51 36	50 28 48
00	39	54.00	019 39 36	40 16 12	00	41	04.00	052 25 48	50 32 24
00	39	55.00	020 02 24	40 27 00	00	41	05.00	053 00 00	50 36 36
00	39	56.00	020 22 48	40 39 36	00	41	06.00	053 36 36	50 40 12
00	39	57.00	020 41 24	40 52 48	00	41	07.00	054 11 24	50 42 36
00	39	58.00	021 02 24	41 03 36	00	41	08.00	054 45 36	50 45 00
00	39	59.00	021 25 48	41 15 00	00	41	09.00	055 13 12	50 49 12
00	40	00.00	021 48 00	41 27 36	00	41	10.00	055 54 36	50 54 36
00	40	01.00	022 10 48	41 34 12	00	41	11.00	056 31 12	50 58 12
00	40	02.00	022 30 36	41 51 00	00	41	12.00	057 06 36	51 01 12
00	40	03.00	022 54 36	42 00 36	00	41	13.00	057 41 24	51 04 12
00	40	04.00	023 16 12	42 09 36	00	41	14.00	058 15 36	51 05 24
00	40	05.00	023 39 36	42 21 00	00	41	15.00	058 51 00	51 07 48
00	40	06.00	024 02 24	42 29 24	00	41	16.00	059 24 36	51 09 36
00	40	07.00	024 27 00	42 43 12	00	41	17.00	060 01 48	51 10 12
00	40	08.00	024 48 00	42 55 48	00	41	18.00	060 34 12	51 11 24
00	40	09.00	025 12 00	43 08 24	00	41	19.00	061 11 24	51 15 00
00	40	10.00	025 38 24	43 21 36	00	41	20.00	061 45 00	51 16 48
00	40	11.00	026 01 12	43 27 36	00	41	21.00	062 21 36	51 16 48
00	40	12.00	026 25 12	43 33 36	00	41	22.00	062 58 48	51 10 48
00	40	13.00	026 49 12	43 50 24	00	41	23.00	063 30 00	51 16 48
00	40	14.00	027 10 48	43 58 12	00	41	24.00	064 07 48	51 17 24
00	40	15.00	027 39 00	44 09 36	00	41	25.00	064 39 36	51 18 00
00	40	16.00	028 03 36	44 19 12	00	41	26.00	065 16 48	51 18 00
00	40	17.00	028 28 48	44 30 36	00	41	27.00	065 52 48	51 18 00
00	40	18.00	028 52 48	44 40 48	00	41	28.00	066 34 48	51 18 00
00	40	19.00	029 05 24	44 51 36	00	41	29.00	067 02 24	51 18 00
00	40	20.00	029 46 48	45 00 00	00	41	30.00	067 37 12	51 18 00
00	40	21.00	030 11 24	45 13 48	00	41	31.00	068 12 00	51 18 00
00	40	22.00	030 40 12	45 23 24	00	41	32.00	068 45 36	51 18 00
00	40	23.00	031 06 00	45 31 48	00	41	33.00	069 22 12	51 15 36
00	40	24.00	031 33 00	45 42 36	00	41	34.00	069 54 36	51 12 36
00	40	25.00	031 58 12	45 51 00	00	41	35.00	070 27 36	51 09 36
00	40	26.00	032 27 36	46 01 12	00	41	36.00	071 00 36	51 07 12
00	40	27.00	032 57 36	46 09 36	00	41	37.00	071 34 48	51 07 12
00	40	28.00	033 24 36	46 16 12	00	41	38.00	072 09 36	51 07 12
00	40	29.00	033 52 12	46 28 48	00	41	39.00	072 43 48	51 03 00
00	40	30.00	034 19 12	46 38 24	00	41	40.00	073 15 36	51 00 00
00	40	31.00	034 51 00	46 47 24	00	41	41.00	073 49 48	50 57 36
00	40	32.00	035 18 36	47 00 36	00	41	42.00	074 19 48	50 54 00
00	40	33.00	035 49 12	47 09 00	00	41	43.00	074 54 00	50 46 12
00	40	34.00	036 16 12	47 16 48	00	41	44.00	075 30 36	50 45 00
00	40	35.00	036 47 24	47 24 36	00	41	45.00	076 03 36	50 45 00
00	40	36.00	037 15 36	47 33 36	00	41	46.00	076 33 36	50 43 48
00	40	37.00	037 46 48	47 41 24	00	41	47.00	077 06 00	50 40 12
00	40	38.00	038 19 12	47 48 36	00	41	48.00	077 38 24	50 37 12
00	40	39.00	038 48 36	47 54 36	00	41	49.00	078 12 36	50 34 12
00	40	40.00	039 16 12	48 03 36	00	41	50.00	078 44 24	50 29 24
00	40	41.00	039 47 24	48 12 36	00	41	51.00	079 13 48	50 25 48
00	40	42.00	040 18 36	48 20 24	00	41	52.00	079 45 00	50 21 36
00	40	43.00	040 51 00	48 25 48	00	41	53.00	080 18 00	50 16 12
00	40	44.00	041 21 36	48 35 24	00	41	54.00	080 50 24	50 12 36

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
00	41	55.00	081 21 36	50 09 36
00	41	56.00	081 53 24	50 02 24
00	41	57.00	082 21 00	49 57 00
00	41	58.00	082 49 48	49 52 48
00	41	59.00	083 19 12	49 48 00
00	42	00.00	083 51 00	49 43 12
00	42	01.00	084 22 12	49 37 48
00	42	02.00	084 51 00	49 32 24
00	42	03.00	085 22 12	49 27 36
00	42	04.00	085 47 24	49 21 36
00	42	05.00	086 20 24	49 16 12
00	42	06.00	086 47 24	49 09 36
00	42	07.00	087 15 00	49 04 12
00	42	08.00	087 41 24	48 55 48
00	42	09.00	088 09 36	48 49 48
00	42	10.00	088 38 24	48 45 36
00	42	11.00	089 06 36	48 40 12
00	42	12.00	089 37 12	48 34 48
00	42	13.00	090 04 12	48 25 48
00	42	14.00	090 27 00	48 19 48
00	42	15.00	090 52 48	48 12 36
00	42	16.00	091 20 24	48 06 00
00	42	17.00	091 44 24	46 57 00
00	42	18.00	092 09 36	47 50 24
00	42	19.00	092 36 36	47 44 24
00	42	20.00	093 01 12	47 38 24
00	42	21.00	093 28 12	47 30 00
00	42	22.00	093 49 48	47 23 24
00	42	23.00	094 15 12	47 16 48
00	42	24.00	094 43 12	47 12 00
00	42	25.00	095 07 12	47 04 12
00	42	26.00	095 29 24	46 54 36
00	42	27.00	095 51 36	46 45 36
00	42	28.00	096 16 48	46 42 00
00	42	29.00	096 39 00	46 32 24
00	42	30.00	096 01 12	46 23 24
00	42	31.00	097 27 36	46 18 00
00	42	32.00	097 49 48	46 08 24
00	42	33.00	098 10 12	45 59 24
00	42	34.00	098 31 48	45 51 36
00	42	35.00	098 52 12	45 43 12
00	42	36.00	099 14 24	45 36 00
00	42	37.00	099 36 00	45 30 00
00	42	38.00	099 58 12	45 19 48
00	42	39.00	100 18 00	45 12 00
00	42	40.00	100 41 24	45 06 36
00	42	41.00	101 03 00	44 57 00
00	42	42.00	101 25 48	44 48 00
00	42	43.00	101 40 12	44 39 36
00	42	44.00	102 01 48	44 31 12
00	42	45.00	102 19 12	44 24 00
00	42	46.00	102 40 48	44 13 48
00	42	47.00	103 01 48	44 07 48
00	42	48.00	103 21 00	43 58 48
00	42	49.00	103 40 48	43 49 12
00	42	50.00	103 57 36	43 40 12
00	42	51.00	104 16 48	43 33 36
00	42	52.00	104 33 36	43 25 12
00	42	53.00	104 54 00	43 15 00
00	42	54.00	105 13 48	43 08 24
00	42	55.00	105 30 00	42 59 24
00	42	56.00	105 50 24	42 52 12
00	42	57.00	106 05 24	42 42 36
00	42	58.00	106 21 36	42 33 36
00	42	59.00	106 40 48	42 25 12
00	43	00.00	106 58 48	42 18 00
00	43	01.00	107 15 36	42 07 48
00	43	02.00	107 30 36	42 01 12
00	43	03.00	107 49 12	41 52 48
00	43	04.00	108 03 00	41 45 00

HR	MIN	SEC	AZIMUTH	ELEVATION
00	43	05.00	108 19 48	41 34 48
00	43	06.00	108 36 36	41 27 36
00	43	07.00	108 50 24	41 19 12
00	43	08.00	109 07 48	41 10 12
00	43	09.00	109 25 48	41 10 12
00	43	10.00	109 40 12	40 53 24
00	43	11.00	109 54 36	40 46 12
00	43	12.00	110 10 12	40 36 36
00	43	13.00	110 25 48	40 28 12
00	43	14.00	110 40 12	40 20 24
00	43	15.00	110 55 48	40 12 00
00	43	16.00	111 12 00	40 03 00
00	43	17.00	111 25 48	39 54 36
00	43	18.00	111 39 36	39 48 00
00	43	19.00	111 54 36	39 40 12
00	43	20.00	112 10 12	39 31 12
00	43	21.00	112 19 12	39 22 12
00	43	22.00	112 34 48	39 12 00
00	43	23.00	112 48 36	39 04 48
00	43	24.00	113 03 36	38 57 36
00	43	25.00	113 16 12	38 48 36
00	43	26.00	113 30 00	38 43 12
00	43	27.00	113 41 24	38 33 36
00	43	28.00	113 52 48	38 24 36
00	43	29.00	114 07 48	38 16 48
00	43	30.00	110 19 12	38 07 12
00	43	31.00	114 31 48	37 58 48
00	43	32.00	114 44 24	37 49 12
00	43	33.00	114 54 00	37 41 24
00	43	34.00	114 09 36	37 31 48
00	43	35.00	115 21 00	37 24 00
00	43	36.00	115 34 12	37 18 36
00	43	37.00	115 43 48	37 10 12
00	43	38.00	115 52 24	37 02 24
00	43	39.00	116 09 00	36 52 48
00	43	40.00	116 19 48	36 45 36
00	43	41.00	116 31 48	36 37 12
00	43	42.00	116 45 00	36 30 36
00	43	43.00	116 55 12	36 23 24
00	43	44.00	117 05 24	36 15 00
00	43	45.00	117 17 24	36 08 24
00	43	46.00	117 27 36	35 57 00
00	43	47.00	117 39 36	35 47 24
00	43	48.00	117 51 00	35 40 48
00	43	49.00	118 00 36	35 33 00
00	43	50.00	119 10 48	35 25 12
00	43	51.00	118 21 36	35 16 48
00	43	52.00	118 28 12	35 09 00
00	43	53.00	118 42 36	35 02 24
00	43	54.00	118 54 00	34 53 24
00	43	55.00	119 00 36	34 45 00
00	43	56.00	119 12 36	34 39 00
00	43	57.00	119 23 24	34 31 48
00	43	58.00	119 32 24	34 24 00
00	43	59.00	119 40 48	34 14 24
00	44	00.00	119 52 12	34 07 48
00	44	01.00	120 01 12	34 00 00
00	44	02.00	120 09 36	33 52 12
00	44	03.00	120 21 00	33 43 12
00	44	04.00	120 27 36	33 37 48
00	44	05.00	120 39 36	33 30 00
00	44	06.00	120 47 24	33 22 12
00	44	07.00	120 57 36	33 14 24
00	44	08.00	121 06 00	33 07 48
00	44	09.00	121 15 36	33 00 00
00	44	10.00	121 23 24	32 52 48
00	44	11.00	121 32 24	32 43 12
00	44	12.00	121 41 24	32 36 36
00	44	13.00	121 49 12	32 30 36
00	44	14.00	121 58 48	32 22 48

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	44	15.00	122 07 48	32 16 12	00	45	25.00	129 44 24	24 42 00
00	44	16.00	122 13 12	32 08 24	00	45	26.00	129 50 24	24 36 36
00	44	17.00	122 23 24	32 00 36	00	45	27.00	129 54 00	24 29 24
00	44	18.00	122 37 48	31 54 00	00	45	28.00	129 58 12	24 22 48
00	44	19.00	122 40 48	31 46 48	00	45	29.00	130 02 24	24 17 24
00	44	20.00	122 47 24	31 38 24	00	45	30.00	130 08 24	24 12 36
00	44	21.00	122 55 48	31 31 12	00	45	31.00	130 13 12	24 07 48
00	44	22.00	123 06 36	31 24 00	00	45	32.00	130 18 36	24 01 48
00	44	23.00	123 13 12	31 16 48	00	45	33.00	130 23 24	23 55 12
00	44	24.00	123 20 24	31 11 24	00	45	34.00	130 27 36	23 49 12
00	44	25.00	123 27 00	31 03 36	00	45	35.00	130 31 12	23 44 24
00	44	26.00	123 36 00	30 57 00	00	45	36.00	130 37 12	23 40 48
00	44	27.00	123 45 00	30 50 24	00	45	37.00	130 42 00	23 33 36
00	44	28.00	123 51 36	30 43 12	00	45	38.00	130 46 48	23 27 00
00	44	29.00	124 00 00	30 34 48	00	45	39.00	130 51 00	23 20 24
00	44	30.00	124 07 48	30 28 48	00	45	40.00	130 55 12	23 15 00
00	44	31.00	124 15 00	30 23 24	00	45	41.00	131 00 36	23 10 12
00	44	32.00	124 22 48	30 17 24	00	45	42.00	131 04 12	23 04 48
00	44	33.00	124 28 48	30 08 24	00	45	43.00	131 09 36	22 59 24
00	44	34.00	124 36 36	30 01 12	00	45	44.00	131 14 24	22 55 48
00	44	35.00	124 44 24	29 55 12	00	45	45.00	131 18 36	22 49 48
00	44	36.00	124 50 24	29 48 00	00	45	46.00	131 21 36	22 44 24
00	44	37.00	124 59 24	29 41 24	00	45	47.00	131 25 48	22 40 12
00	44	38.00	125 04 48	29 34 12	00	45	48.00	131 30 36	22 34 12
00	44	39.00	125 10 48	29 28 12	00	45	49.00	131 35 24	22 29 24
00	44	40.00	125 19 12	29 21 00	00	45	50.00	131 39 00	22 23 24
00	44	41.00	125 25 12	29 13 48	00	45	51.00	131 43 48	22 17 24
00	44	42.00	125 32 24	29 06 36	00	45	52.00	131 48 36	22 12 00
00	44	43.00	125 39 00	29 00 00	00	45	53.00	131 52 12	22 08 24
00	44	44.00	125 45 00	28 53 24	00	45	54.00	131 55 48	22 03 36
00	44	45.00	125 51 36	28 45 36	00	45	55.00	132 00 00	21 58 12
00	44	46.00	125 58 12	28 39 36	00	45	56.00	132 04 12	21 51 00
00	44	47.00	126 06 36	28 32 24	00	45	57.00	132 08 24	21 45 36
00	44	48.00	126 14 24	28 25 12	00	45	58.00	132 12 00	21 39 36
00	44	49.00	126 18 36	28 20 24	00	45	59.00	132 16 12	21 36 00
00	44	50.00	126 24 00	28 13 12	00	46	00.00	132 21 36	21 31 12
00	44	51.00	126 31 12	28 09 00	00	46	01.00	132 25 12	21 27 00
00	44	52.00	126 39 00	28 03 00	00	46	02.00	132 27 36	21 22 12
00	44	53.00	126 43 12	27 56 24	00	46	03.00	132 32 24	21 15 36
00	44	54.00	126 50 24	27 49 48	00	46	04.00	132 36 36	21 11 24
00	44	55.00	126 56 24	27 44 24	00	46	05.00	132 40 48	21 06 00
00	44	56.00	127 03 00	27 36 36	00	46	06.00	132 43 12	21 03 36
00	44	57.00	127 10 48	27 28 12	00	46	07.00	132 48 00	20 55 12
00	44	58.00	127 16 12	27 21 36	00	46	08.00	132 51 00	20 49 12
00	44	59.00	127 21 00	27 16 48	00	46	09.00	132 54 36	20 43 48
00	45	00.00	127 25 48	27 11 24	00	46	10.00	132 58 48	20 39 00
00	45	01.00	127 32 24	27 05 24	00	46	11.00	133 03 36	20 33 36
00	45	02.00	127 37 48	26 58 48	00	46	12.00	133 06 00	20 30 00
00	45	03.00	127 43 48	26 52 12	00	46	13.00	133 10 48	20 25 48
00	45	04.00	127 50 24	26 46 12	00	46	14.00	133 13 48	20 21 36
00	45	05.00	127 56 24	26 41 24	00	46	15.00	133 17 24	20 15 36
00	45	06.00	128 03 36	26 34 48	00	46	16.00	133 21 00	20 10 48
00	45	07.00	128 08 24	26 27 36	00	46	17.00	133 25 12	20 07 12
00	45	08.00	128 14 24	26 22 48	00	46	18.00	133 29 24	20 01 48
00	45	09.00	128 18 00	26 15 00	00	46	19.00	133 32 24	19 58 12
00	45	10.00	128 24 00	26 10 12	00	46	20.00	133 36 36	19 52 48
00	45	11.00	128 30 00	26 05 24	00	46	21.00	133 39 36	19 48 00
00	45	12.00	128 34 12	25 58 48	00	46	22.00	133 43 48	19 41 24
00	45	13.00	128 43 12	25 51 36	00	46	23.00	133 46 48	19 35 24
00	45	14.00	128 46 48	25 47 24	00	46	24.00	133 49 48	19 31 48
00	45	15.00	128 51 00	25 40 48	00	46	25.00	133 54 00	19 28 12
00	45	16.00	128 55 48	25 34 48	00	46	26.00	133 57 00	19 23 24
00	45	17.00	129 03 00	25 28 12	00	46	27.00	134 00 00	19 19 12
00	45	18.00	129 07 12	25 21 00	00	46	28.00	134 04 12	19 14 24
00	45	19.00	129 13 12	25 16 12	00	46	29.00	134 07 12	19 09 36
00	45	20.00	129 18 00	25 10 12	00	46	30.00	134 10 48	19 04 48
00	45	21.00	129 22 48	25 04 12	00	46	31.00	134 14 24	19 00 00
00	45	22.00	129 28 48	25 00 00	00	46	32.00	134 17 24	18 55 12
00	45	23.00	129 33 00	24 54 00	00	46	33.00	134 20 24	18 50 24
00	45	24.00	129 37 48	24 47 24	00	46	34.00	134 24 36	18 45 00

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	46	35.00	134 26 24	18 41 24	00	47	20.00	136 39 00	15 25 48
00	46	36.00	134 31 12	18 34 48	00	47	21.00	136 40 48	15 22 48
00	46	37.00	134 34 12	18 30 36	00	47	22.00	136 43 12	15 18 36
00	46	38.00	134 37 48	18 26 24	00	47	23.00	136 47 24	15 13 48
00	46	39.00	134 40 48	18 22 48	00	47	24.00	136 48 36	15 10 48
00	46	40.00	134 43 48	18 18 00	00	47	25.00	136 52 12	15 06 00
00	46	41.00	134 46 48	18 13 12	00	47	26.00	136 53 24	15 01 48
00	46	42.00	134 50 24	18 09 36	00	47	27.00	136 57 36	14 55 12
00	46	43.00	134 52 48	18 03 36	00	47	28.00	137 00 00	14 52 48
00	46	44.00	134 55 48	17 58 48	00	47	29.00	137 02 24	14 49 48
00	46	45.00	134 59 24	17 54 00	00	47	30.00	137 05 24	14 45 36
00	46	46.00	135 02 24	17 50 24	00	47	31.00	137 10 48	14 42 00
00	46	47.00	135 05 24	17 47 24	00	47	32.00	137 10 12	14 37 48
00	46	48.00	135 08 24	17 40 48	00	47	33.00	137 13 12	14 33 36
00	46	49.00	125 11 24	17 35 24	00	47	34.00	137 14 24	14 30 00
00	46	50.00	135 15 00	17 31 12	00	47	35.00	137 16 48	14 24 00
00	46	51.00	135 17 24	17 26 24	00	47	36.00	137 19 48	14 20 24
00	46	52.00	135 21 36	17 22 12	00	47	37.00	137 21 36	14 15 36
00	46	53.00	135 25 12	17 19 12	00	47	38.00	137 24 36	14 12 00
00	46	54.00	135 27 36	17 16 12	00	47	39.00	137 27 36	14 09 00
00	46	55.00	135 30 00	17 12 00	00	47	40.00	137 30 00	14 07 12
00	46	56.00	135 33 00	17 07 12	00	47	41.00	137 31 12	14 02 24
00	46	57.00	135 35 24	17 01 48	00	47	42.00	137 34 12	14 00 00
00	46	58.00	135 39 00	16 58 12	00	47	43.00	137 36 00	13 55 12
00	46	59.00	135 41 24	16 54 00	00	47	44.00	137 39 36	13 49 12
00	47	00.00	135 45 00	16 49 12	00	47	45.00	137 40 48	13 43 48
00	47	01.00	135 47 24	16 45 36	00	47	46.00	137 41 24	13 39 36
00	47	02.00	135 49 48	16 40 12	00	47	47.00	137 42 00	13 37 12
00	47	03.00	135 52 48	16 36 00	00	47	48.00	137 49 48	13 34 12
00	47	04.00	135 55 48	16 33 00	00	47	49.00	137 51 00	13 31 12
00	47	05.00	135 58 48	16 27 36	00	47	50.00	137 51 00	13 26 24
00	47	06.00	136 01 12	16 24 36	00	47	51.00	137 54 36	13 22 48
00	47	07.00	136 04 48	16 20 24	00	47	52.00	137 54 36	13 19 48
00	47	08.00	136 07 12	16 16 12	00	47	53.00	137 59 24	13 16 12
00	47	09.00	136 10 12	16 12 36	00	47	54.00	138 00 00	13 12 00
00	47	10.00	136 12 36	16 08 24	00	47	55.00	138 03 00	13 09 00
00	47	11.00	136 16 12	16 04 48	00	47	56.00	138 06 00	13 05 24
00	47	12.00	136 18 00	15 58 48	00	47	57.00	138 07 12	13 01 48
00	47	13.00	136 19 48	15 54 00	00	47	58.00	138 09 00	12 58 12
00	47	14.00	136 22 12	15 51 00	00	47	59.00	138 12 36	12 54 00
00	47	15.00	136 24 36	15 46 12	00	48	00.00	138 15 00	12 48 36
00	47	16.00	136 28 12	15 42 00	00	48	01.00	138 16 12	12 45 36
00	47	17.00	136 31 12	15 38 24	00	48	02.00	138 19 12	12 42 00
00	47	18.00	136 34 12	15 34 48	00	48	03.00	138 20 24	12 38 24
00	47	19.00	136 37 12	15 29 24	00	48	04.00	138 22 12	12 36 36

PATRICK AFB OPT. TR STA. 4.1 LAT. 25 16 03 N LONG. 283 41 12 E HT 0037 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	44	23.00	122 40 12	49 13 12	00	44	40.00	126 12 00	46 16 12
00	44	24.00	122 46 48	49 08 24	00	44	41.00	126 16 12	46 03 00
00	44	25.00	123 03 00	49 01 48	00	44	42.00	126 34 48	45 52 48
00	44	26.00	123 17 24	48 46 48	00	44	43.00	126 46 12	45 45 36
00	44	27.00	123 28 48	48 38 24	00	44	44.00	126 51 00	45 38 24
00	44	28.00	123 41 24	48 30 36	00	44	45.00	127 04 12	45 28 48
00	44	29.00	123 54 00	48 18 00	00	44	46.00	127 24 36	45 16 12
00	44	30.00	124 07 48	48 09 00	00	44	47.00	127 24 00	45 07 12
00	44	31.00	124 22 48	47 55 48	00	44	48.00	127 41 24	44 55 12
00	44	32.00	124 36 36	47 44 24	00	44	49.00	127 44 24	44 43 48
00	44	33.00	124 45 36	47 33 00	00	44	50.00	127 59 24	44 35 24
00	44	34.00	124 56 24	47 25 12	00	44	51.00	128 03 36	44 25 48
00	44	35.00	125 11 24	47 03 36	00	44	52.00	128 15 36	44 15 36
00	44	36.00	125 13 48	47 03 36	00	44	53.00	128 25 12	44 09 00
00	44	37.00	125 39 00	46 50 24	00	44	54.00	128 36 36	43 47 24
00	44	38.00	125 46 48	46 42 00	00	44	55.00	128 43 48	43 40 12
00	44	39.00	126 06 36	46 25 12	00	44	56.00	128 53 24	43 29 24

PATRICK AFB OPT. TR STA. 4.1 LAT. 25 16 03 N LONG. 283 41 12 E HT 0037 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	44	57.00	128 59 24	43 13 12	00	45	44.00	134 44 24	35 50 24
00	44	58.00	129 05 24	43 09 36	00	45	45.00	134 57 00	35 48 36
00	44	59.00	129 28 48	42 51 36	00	45	46.00	134 57 36	35 47 24
00	45	00.00	129 25 48	42 51 36	00	45	47.00	134 58 48	35 28 12
00	45	01.00	129 36 36	42 36 36	00	45	48.00	135 17 24	35 28 12
00	45	02.00	129 41 24	42 30 36	00	45	49.00	135 18 00	35 18 36
00	45	03.00	129 56 24	42 16 12	00	45	50.00	135 13 48	35 07 12
00	45	04.00	130 01 12	42 09 00	00	45	51.00	135 15 00	35 06 36
00	45	05.00	130 07 12	41 55 48	00	45	52.00	135 15 36	35 05 24
00	45	06.00	130 25 12	41 54 36	00	45	53.00	135 12 00	34 41 24
00	45	07.00	130 30 00	41 40 12	00	45	54.00	135 12 00	34 19 48
00	45	08.00	130 45 36	41 29 24	00	45	55.00	135 21 36	34 08 24
00	45	09.00	130 44 24	41 23 24	00	45	56.00	135 24 36	33 42 36
00	45	10.00	130 54 00	41 09 36	00	45	57.00	135 12 36	33 16 48
00	45	11.00	130 55 48	41 00 00	00	45	58.00	135 18 36	32 41 24
00	45	12.00	131 04 48	40 46 12	00	45	59.00	135 16 48	31 21 36
00	45	13.00	131 22 12	40 39 36	00	46	00.00	135 13 12	30 40 12
00	45	14.00	131 24 36	40 31 12	00	46	01.00	135 22 48	30 11 24
00	45	15.00	131 33 00	40 17 24	00	46	02.00	135 23 24	29 58 48
00	45	16.00	131 49 12	40 11 24	00	46	26.00	141 01 12	27 34 12
00	45	17.00	131 52 48	39 58 48	00	46	29.00	141 10 12	27 29 24
00	45	18.00	131 51 36	39 52 12	00	46	30.00	141 31 48	27 28 48
00	45	19.00	132 11 24	39 39 36	00	46	31.00	142 06 00	27 12 36
00	45	20.00	132 10 48	39 34 12	00	46	32.00	142 07 12	27 12 36
00	45	21.00	132 18 36	39 22 12	00	46	33.00	142 24 00	27 16 12
00	45	22.00	132 25 12	39 15 36	00	46	34.00	142 24 36	27 40 48
00	45	23.00	132 30 36	39 07 48	00	46	35.00	142 54 00	27 16 48
00	45	24.00	132 36 36	39 06 00	00	46	36.00	143 04 48	27 11 24
00	45	25.00	132 50 24	38 34 12	00	46	37.00	143 04 48	26 48 36
00	45	26.00	132 51 00	38 40 48	00	46	38.00	143 20 24	26 48 36
00	45	27.00	133 01 48	38 32 24	00	46	39.00	143 14 24	26 41 24
00	45	28.00	133 03 00	38 16 12	00	46	40.00	143 13 12	26 31 12
00	45	29.00	133 21 00	38 06 00	00	46	41.00	145 01 48	26 22 48
00	45	30.00	133 21 00	38 02 24	00	46	42.00	143 12 36	26 18 00
00	45	31.00	133 21 36	37 34 12	00	46	43.00	143 21 00	26 18 00
00	45	32.00	133 28 48	37 34 48	00	46	44.00	143 23 24	26 18 00
00	45	33.00	133 45 36	37 34 48	00	46	45.00	143 25 12	26 18 36
00	45	34.00	133 42 36	37 27 00	00	46	46.00	143 26 24	26 13 12
00	45	35.00	133 43 48	37 17 24	00	46	47.00	143 37 12	26 12 36
00	45	36.00	134 01 48	37 12 00	00	46	48.00	143 37 12	26 05 24
00	45	37.00	134 01 48	37 01 48	00	46	49.00	143 51 36	25 21 36
00	45	38.00	134 17 24	36 52 12	00	46	50.00	144 19 48	25 30 36
00	45	39.00	134 10 12	36 43 48	00	46	51.00	144 35 24	25 28 12
00	45	40.00	134 16 48	36 32 24	00	46	52.00	144 58 48	25 24 36
00	45	41.00	134 30 00	36 22 12	00	46	53.00	145 09 36	25 24 36
00	45	42.00	134 36 00	36 19 48	00	46	54.00	145 30 36	25 24 00
00	45	43.00	134 44 24	36 04 48	00	46	55.00	145 46 12	25 23 24

PATRICK AFB RADAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	39	59.00	005 56 24	34 23 24	00	40	14.00	009 39 00	37 42 36
00	40	00.00	005 17 24	34 37 48	00	40	15.00	010 20 24	37 50 24
00	40	01.00	005 28 12	34 56 24	00	40	16.00	010 19 48	38 04 48
00	40	02.00	005 46 12	35 10 12	00	40	17.00	010 27 36	38 17 24
00	40	03.00	006 56 24	35 23 24	00	40	18.00	010 48 36	38 25 12
00	40	04.00	007 07 48	35 28 12	00	40	19.00	010 57 00	38 41 24
00	40	05.00	007 20 24	35 32 24	00	40	20.00	011 25 48	38 52 48
00	40	06.00	007 49 12	35 55 48	00	40	21.00	011 37 48	39 04 48
00	40	07.00	007 46 48	36 13 12	00	40	22.00	012 13 48	39 07 12
00	40	08.00	008 05 24	36 24 36	00	40	23.00	012 13 12	39 36 36
00	40	09.00	008 06 36	36 47 24	00	40	24.00	012 21 36	39 48 00
00	40	10.00	008 57 36	36 57 00	00	40	25.00	012 44 24	39 57 00
00	40	11.00	008 57 36	36 55 48	00	40	26.00	013 16 48	40 07 48
00	40	12.00	009 20 24	37 13 48	00	40	27.00	013 21 36	40 27 36
00	40	13.00	009 12 36	37 34 48	00	40	28.00	014 01 12	40 37 48

PATRICK AFB RAOAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

18 MAY 58

HR MIN SEC AZIMUTH ELEVATION

00 40 29.00 014 09 36 40 43 12
00 40 30.00 014 24 00 40 53 24
00 40 31.00 014 37 48 41 14 24
00 40 32.00 015 04 48 41 31 12
00 40 33.00 015 20 24 41 36 00

00 40 34.00 015 34 12 41 57 36
00 40 35.00 016 10 48 42 04 12
00 40 36.00 016 10 12 42 10 12
00 40 37.00 016 33 00 42 29 24
00 40 38.00 016 54 36 42 43 12

00 40 39.00 017 20 24 42 49 48
00 40 40.00 017 46 12 43 06 36
00 40 41.00 019 03 00 43 19 48
00 40 42.00 018 27 36 43 33 00
00 40 43.00 018 46 12 43 52 12

00 40 44.00 019 25 12 44 00 36
00 40 45.00 019 05 24 44 03 00
00 40 46.00 019 46 48 44 16 48
00 40 47.00 020 07 48 44 37 12
00 40 48.00 020 45 36 44 51 36

00 40 49.00 021 06 00 44 56 24
00 40 50.00 021 12 00 45 19 12
00 40 51.00 021 59 24 45 30 00
00 40 52.00 022 24 00 45 48 00
00 40 53.00 022 32 24 45 49 12

00 40 54.00 023 09 00 46 06 00
00 40 55.00 023 20 24 46 22 12
00 40 56.00 023 24 00 46 09 36
00 40 57.00 024 03 36 46 49 48
00 40 58.00 025 25 12 47 00 36

00 40 59.00 025 26 24 46 52 48
00 41 00.00 025 27 00 47 19 12
00 41 01.00 025 30 00 47 42 36
00 41 02.00 025 43 12 47 42 00
00 41 03.00 026 34 12 47 54 00

00 41 04.00 027 19 12 48 07 48
00 41 05.00 028 09 00 48 31 12
00 41 06.00 028 37 48 49 01 12
00 41 07.00 028 31 12 49 19 12
00 41 08.00 029 06 36 48 49 48

00 41 09.00 029 39 36 48 40 48
00 41 10.00 029 34 48 49 03 36
00 41 11.00 031 22 48 48 58 12
00 41 12.00 031 00 36 49 20 24
00 41 13.00 031 28 12 49 46 12

00 41 14.00 032 09 00 50 06 00
00 41 15.00 032 54 00 50 10 48
00 41 16.00 033 38 24 50 15 36
00 41 17.00 033 37 48 50 34 48
00 41 18.00 034 15 36 50 47 24

00 41 19.00 034 44 24 50 59 24
00 41 20.00 035 33 36 50 53 24
00 41 21.00 035 43 12 51 11 24
00 41 22.00 036 31 12 51 28 12
00 41 23.00 037 19 48 51 40 48

00 41 24.00 037 40 12 51 47 24
00 41 25.00 038 05 24 52 03 00
00 41 26.00 038 48 00 52 10 12
00 41 27.00 039 21 36 52 25 12
00 41 28.00 039 53 24 52 27 00

00 41 29.00 040 31 48 52 47 24
00 41 30.00 040 53 24 52 49 12
00 41 31.00 041 37 12 52 58 12
00 41 32.00 042 09 00 52 54 36
00 41 33.00 042 42 36 52 58 48

00 41 34.00 043 21 36 53 11 24
00 41 35.00 044 13 48 53 21 36
00 41 36.00 044 48 00 53 31 48
00 41 37.00 045 19 12 53 37 12
00 41 38.00 045 45 36 53 51 00

HR MIN SEC AZIMUTH ELEVATION

00 41 39.00 046 43 12 53 42 00
00 41 40.00 047 08 24 53 42 00
00 41 41.00 047 51 00 54 04 12
00 41 42.00 048 31 12 54 20 24
00 41 43.00 048 27 36 54 19 48

00 41 44.00 049 48 36 54 20 24
00 41 45.00 050 18 00 54 24 00
00 41 46.00 050 59 24 54 35 24
00 41 47.00 051 36 36 54 49 12
00 41 48.00 052 27 00 54 50 24

00 41 49.00 052 45 36 54 53 24
00 41 50.00 053 36 36 55 01 12
00 41 51.00 054 15 00 55 10 48
00 41 52.00 054 33 00 54 56 24
00 41 53.00 054 50 24 55 25 12

00 41 54.00 057 16 48 55 24 36
00 41 55.00 056 55 48 54 46 12
00 41 56.00 058 10 12 55 46 48
00 41 57.00 058 32 24 56 13 48
00 41 58.00 058 34 12 55 57 00

00 41 59.00 059 28 48 55 16 00
00 42 00.00 060 20 24 55 24 36
00 42 01.00 061 34 12 55 34 48
00 42 02.00 061 45 36 55 30 00
00 42 03.00 062 09 00 55 33 36

00 42 04.00 062 39 36 55 38 24
00 42 05.00 064 24 00 55 28 48
00 42 06.00 064 52 48 55 26 24
00 42 07.00 065 21 00 55 35 24
00 42 08.00 066 22 48 55 29 24

00 42 09.00 067 00 00 55 22 12
00 42 10.00 069 09 00 55 19 12
00 42 11.00 068 03 36 55 13 48
00 44 36.00 124 24 00 37 03 00
00 44 37.00 123 50 24 37 47 36

00 44 38.00 124 00 36 36 40 48
00 44 39.00 124 55 12 36 16 48
00 44 40.00 125 03 36 36 42 00
00 44 41.00 124 16 48 35 48 36
00 44 42.00 124 17 12 36 30 36

00 44 43.00 125 33 36 36 07 48
00 44 44.00 125 27 00 36 31 48
00 44 45.00 124 47 36 36 36 36
00 44 46.00 124 57 00 35 53 24
00 44 47.00 126 09 00 35 28 48

00 44 48.00 126 06 00 35 41 24
00 44 49.00 125 19 48 35 43 12
00 44 50.00 125 35 24 35 04 48
00 44 51.00 126 40 12 34 42 00
00 44 52.00 125 34 12 35 04 48

00 44 53.00 125 47 24 35 22 12
00 44 54.00 126 01 12 34 51 36
00 44 55.00 126 56 24 34 33 36
00 44 56.00 127 15 36 34 41 24
00 44 57.00 126 21 36 34 42 00

00 44 58.00 126 52 48 34 20 24
00 44 59.00 127 57 00 33 53 24
00 45 00.00 127 37 12 34 15 00
00 45 01.00 126 54 00 34 12 00
00 45 02.00 127 27 00 33 49 48

00 45 03.00 128 16 12 33 28 48
00 45 04.00 128 06 00 33 52 48
00 45 05.00 127 29 24 33 51 36
00 45 06.00 128 02 24 33 09 36
00 45 07.00 128 57 36 32 54 36

00 45 08.00 128 36 36 33 24 00
00 45 09.00 128 26 24 32 55 48
00 45 10.00 128 41 24 32 19 48
00 45 11.00 128 43 48 32 23 24
00 45 12.00 128 57 00 32 31 12

PATRICK AFB RAQAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	45	13.00	128 59 24	32 24 00	00	45	37.00	131 27 36	29 09 00
00	45	14.00	129 01 12	31 55 12	00	45	38.00	131 30 36	29 04 12
00	45	15.00	129 04 48	31 55 48	00	45	39.00	131 25 48	28 46 48
00	45	16.00	129 06 00	32 00 36	00	45	40.00	131 36 00	28 42 36
00	45	17.00	129 14 24	31 48 36	00	45	41.00	131 38 24	28 32 24
00	45	18.00	129 16 48	31 34 12	00	45	42.00	131 34 48	28 39 36
00	45	19.00	129 24 36	31 31 12	00	45	43.00	132 13 12	28 46 48
00	45	20.00	129 22 48	31 21 36	00	45	44.00	132 03 36	28 44 24
00	45	21.00	129 33 00	31 09 00	00	45	45.00	132 10 12	28 33 00
00	45	22.00	129 31 12	30 34 48	00	45	46.00	132 09 36	28 23 24
00	45	23.00	129 33 00	30 15 36	00	45	47.00	132 16 12	28 28 12
00	45	24.00	129 52 12	30 51 36	00	45	48.00	132 17 24	28 21 00
00	45	25.00	130 02 24	30 55 48	00	45	49.00	132 11 24	28 00 00
00	45	26.00	130 16 12	30 24 00	00	45	50.00	132 36 36	27 43 12
00	45	27.00	130 20 24	30 16 12	00	45	51.00	132 23 24	26 55 12
00	45	28.00	130 30 00	30 19 48	00	45	52.00	133 28 48	26 36 00
00	45	29.00	130 48 36	30 19 12	00	45	53.00	133 31 48	26 12 00
00	45	30.00	130 50 24	29 54 36	00	45	54.00	133 38 24	25 55 48
00	45	31.00	130 58 12	29 40 48	00	45	55.00	134 27 00	25 00 36
00	45	32.00	131 08 24	29 45 36	00	45	56.00	134 41 24	23 21 36
00	45	33.00	130 56 24	29 40 48	00	45	57.00	135 28 48	22 03 36
00	45	34.00	131 09 00	29 39 00	00	45	58.00	135 13 12	19 57 36
00	45	35.00	131 10 48	29 29 24	00	45	59.00	135 24 36	21 00 36
00	45	36.00	131 19 48	29 19 12	00	46	00.00	135 28 12	21 43 12

PATRICK AFB THE00. STA. 1.3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	39	56.00	019 56 24	39 46 48	00	40	34.00	035 19 12	46 20 24
00	39	57.00	019 57 00	39 55 12	00	40	35.00	035 42 00	46 28 48
00	39	58.00	020 15 36	40 00 36	00	40	36.00	035 55 12	46 36 36
00	39	59.00	020 31 48	40 10 48	00	40	37.00	036 29 24	46 44 24
00	40	00.00	021 22 48	40 28 48	00	40	38.00	037 14 24	46 53 24
00	40	01.00	021 46 48	40 45 00	00	40	39.00	037 47 24	47 01 12
00	40	02.00	022 14 24	40 54 36	00	40	40.00	038 13 12	47 09 00
00	40	03.00	022 24 00	41 10 12	00	40	41.00	038 45 36	47 17 24
00	40	04.00	022 42 00	41 22 48	00	40	42.00	039 09 36	47 27 00
00	40	05.00	023 01 48	41 29 24	00	40	43.00	039 42 36	47 34 12
00	40	06.00	023 39 00	41 36 36	00	40	44.00	040 13 12	47 40 48
00	40	07.00	023 49 48	41 49 12	00	40	45.00	040 43 48	47 48 36
00	40	08.00	024 21 36	42 00 36	00	40	46.00	041 16 48	47 57 36
00	40	09.00	024 45 00	42 10 48	00	40	47.00	041 45 36	48 05 24
00	40	10.00	024 58 48	42 22 12	00	40	48.00	042 18 00	48 12 36
00	40	11.00	025 22 12	42 36 00	00	40	49.00	042 48 00	48 18 36
00	40	12.00	025 51 00	42 46 12	00	40	50.00	043 18 36	48 24 36
00	40	13.00	025 57 00	42 55 12	00	40	51.00	043 48 00	48 31 12
00	40	14.00	026 18 36	43 04 48	00	40	52.00	044 19 12	48 37 48
00	40	15.00	027 03 36	43 16 12	00	40	53.00	044 53 24	48 43 48
00	40	16.00	027 24 36	43 25 48	00	40	54.00	045 23 24	48 47 24
00	40	17.00	027 54 00	43 33 00	00	40	55.00	045 57 36	48 57 00
00	40	18.00	028 16 48	43 48 00	00	40	56.00	046 10 48	49 04 12
00	40	19.00	028 31 12	43 58 48	00	40	57.00	047 02 24	49 07 48
00	40	20.00	029 07 12	44 07 12	00	40	58.00	047 34 12	49 13 12
00	40	21.00	029 35 24	44 16 12	00	40	59.00	048 08 24	49 19 48
00	40	22.00	029 57 00	44 27 36	00	41	00.00	048 45 00	49 24 00
00	40	23.00	030 30 36	44 34 48	00	41	01.00	049 06 00	49 30 36
00	40	24.00	030 42 00	44 46 48	00	41	02.00	049 44 24	49 33 36
00	40	25.00	031 09 36	45 00 00	00	41	03.00	050 16 48	49 38 24
00	40	26.00	031 33 36	45 07 48	00	41	04.00	050 49 12	49 43 12
00	40	27.00	032 09 36	45 16 12	00	41	05.00	051 27 00	49 48 36
00	40	28.00	032 28 12	45 24 36	00	41	06.00	052 00 36	49 52 48
00	40	29.00	032 55 48	45 32 24	00	41	07.00	052 39 36	49 57 00
00	40	30.00	033 27 00	45 39 00	00	41	08.00	053 06 36	50 02 24
00	40	31.00	033 55 12	45 51 36	00	41	09.00	053 33 36	50 07 48
00	40	32.00	034 28 12	46 02 24	00	41	10.00	054 14 24	50 10 12
00	40	33.00	034 49 48	46 10 48	00	41	11.00	054 45 36	50 11 24

PATRICK AFB THEOD. STA. 1.3

LAT. 28 16 17 N

LONG. 278 23 37 E

HT 0005 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
00	41	12.00	054 24 00	50 16 12
00	41	13.00	054 54 00	50 18 00
00	41	14.00	056 32 24	50 19 48
00	41	15.00	057 00 36	50 22 12
00	41	16.00	057 35 24	50 25 48
00	41	17.00	058 15 36	50 28 48
00	41	18.00	058 49 48	50 30 36
00	41	19.00	059 19 48	50 31 12
00	41	20.00	059 56 24	50 32 24
00	41	21.00	060 11 24	50 34 12
00	41	22.00	061 07 12	50 35 24
00	41	23.00	061 43 48	50 37 12
00	41	24.00	062 17 24	50 39 36
00	41	25.00	062 50 24	50 40 12
00	41	26.00	063 18 00	50 40 12
00	41	27.00	063 57 00	50 40 48
00	41	28.00	064 34 12	50 40 48
00	41	29.00	065 10 48	50 40 48
00	41	30.00	065 42 00	50 41 24
00	41	31.00	066 13 48	50 42 00
00	41	32.00	066 47 24	50 42 00
00	41	33.00	067 17 24	50 40 12
00	41	34.00	067 57 36	50 38 24
00	41	35.00	068 27 36	50 39 00
00	41	36.00	069 05 24	50 39 00
00	41	37.00	069 33 00	50 37 48
00	41	38.00	070 10 12	50 36 00
00	41	39.00	070 43 12	50 33 36
00	41	40.00	071 16 48	50 30 36
00	41	41.00	071 47 24	50 28 48
00	41	42.00	072 25 48	50 27 36
00	41	43.00	072 54 36	50 26 24
00	41	44.00	073 29 24	50 23 24
00	41	45.00	074 01 12	50 21 00
00	41	46.00	074 30 00	50 19 12
00	41	47.00	074 51 00	50 15 36
00	41	48.00	075 39 36	50 13 12
00	41	49.00	076 13 12	50 10 48
00	41	50.00	076 43 48	50 06 36
00	41	51.00	077 14 24	50 02 24
00	41	52.00	077 44 24	49 59 24
00	41	53.00	078 13 48	49 55 12
00	41	54.00	078 49 48	49 51 36
00	41	55.00	079 19 48	49 48 00
00	41	56.00	079 48 00	49 44 24
00	41	57.00	080 19 12	49 39 00
00	41	58.00	080 50 24	49 34 48
00	41	59.00	081 21 36	49 31 12
00	42	00.00	081 53 24	49 25 48
00	42	01.00	082 18 36	49 22 12
00	42	02.00	082 54 36	49 17 24
00	42	03.00	083 13 48	49 11 24
00	42	04.00	083 43 48	49 05 24
00	42	05.00	084 12 36	49 00 36
00	42	06.00	084 43 48	48 55 12
00	42	07.00	085 16 12	48 51 00
00	42	08.00	085 40 12	48 45 36
00	42	09.00	086 14 24	48 40 12
00	42	10.00	086 31 48	48 33 36
00	42	11.00	086 58 48	48 28 12
00	42	12.00	087 25 48	48 19 48
00	42	13.00	087 58 48	48 16 48
00	42	14.00	088 30 00	48 09 36
00	42	15.00	088 57 36	48 04 12
00	42	16.00	088 19 48	47 58 12
00	42	17.00	088 45 36	47 51 36
00	42	18.00	089 12 00	47 44 24
00	42	19.00	090 40 48	47 37 48
00	42	20.00	091 09 00	47 31 48
00	42	21.00	091 34 48	47 24 00

HR	MIN	SEC	AZIMUTH	ELEVATION
00	42	22.00	091 54 00	47 18 36
00	42	23.00	092 19 12	47 11 24
00	42	24.00	092 43 48	47 03 36
00	42	25.00	093 10 48	46 58 48
00	42	26.00	093 34 48	46 49 12
00	42	27.00	094 01 12	46 42 00
00	42	28.00	094 28 12	46 35 24
00	42	29.00	094 49 48	46 30 00
00	42	30.00	095 08 24	46 21 00
00	42	31.00	095 39 36	46 13 12
00	42	32.00	095 54 00	46 06 36
00	42	33.00	096 09 36	45 59 24
00	42	34.00	096 39 00	45 51 36
00	42	35.00	097 02 24	45 42 00
00	42	36.00	097 31 12	45 36 00
00	42	37.00	097 48 36	45 28 48
00	42	38.00	098 03 00	45 22 12
00	42	39.00	098 29 24	45 14 24
00	42	40.00	098 56 24	45 07 12
00	42	41.00	099 19 12	45 00 00
00	42	42.00	099 36 00	44 50 24
00	42	43.00	099 55 48	44 40 12
00	42	44.00	100 18 36	44 33 36
00	42	45.00	100 40 48	44 25 48
00	42	46.00	101 00 00	44 19 48
00	42	47.00	101 21 00	44 12 00
00	42	48.00	101 39 36	44 04 12
00	42	49.00	101 58 48	43 54 36
00	42	50.00	102 18 36	43 44 24
00	42	51.00	102 35 24	43 36 36
00	42	52.00	102 55 12	43 30 00
00	42	53.00	103 16 12	43 21 00
00	42	54.00	103 34 48	43 15 00
00	42	55.00	103 52 12	43 05 24
00	42	56.00	104 12 36	42 57 00
00	42	57.00	104 32 24	42 49 12
00	42	58.00	104 49 48	42 40 48
00	42	59.00	105 05 24	42 31 48
00	43	00.00	105 24 00	42 24 00
00	43	01.00	105 39 36	42 16 48
00	43	02.00	106 00 00	42 07 12
00	43	03.00	106 14 24	41 59 24
00	43	04.00	106 34 12	41 49 48
00	43	05.00	106 48 36	41 42 36
00	43	06.00	107 05 24	41 33 00
00	43	07.00	107 24 00	41 25 12
00	43	08.00	107 40 12	41 18 36
00	43	09.00	107 54 36	41 10 48
00	43	10.00	108 12 00	41 02 24
00	43	11.00	108 28 48	40 54 00
00	43	12.00	108 45 00	40 45 36
00	43	13.00	109 00 36	40 36 36
00	43	14.00	109 15 36	40 30 36
00	43	15.00	109 26 24	40 19 12
00	43	16.00	109 43 12	40 12 36
00	43	17.00	109 58 48	40 04 12
00	43	18.00	110 15 00	39 54 00
00	43	19.00	110 28 12	39 48 00
00	43	20.00	110 45 00	39 40 12
00	43	21.00	110 58 12	39 30 36
00	43	22.00	111 11 24	39 20 24
00	43	23.00	111 24 00	39 13 48
00	43	24.00	111 39 00	39 06 00
00	43	25.00	111 58 48	39 01 12
00	43	26.00	112 03 36	38 52 12
00	43	27.00	112 19 48	38 42 36
00	43	28.00	112 31 48	38 33 36
00	43	29.00	112 40 48	38 24 36
00	43	30.00	112 59 24	38 16 12
00	43	31.00	113 16 12	38 09 36

PATRICK AFB THEOO. STA. 1.3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
00	43	32.00	113 30 00	38 01 12
00	43	33.00	113 41 24	37 54 36
00	43	34.00	113 49 48	37 46 12
00	43	35.00	114 03 36	37 36 00
00	43	36.00	114 17 24	37 27 36
00	43	37.00	114 28 48	37 20 24
00	43	38.00	114 44 24	37 04 48
00	43	39.00	114 54 00	37 04 12
00	43	40.00	115 06 36	36 57 00
00	43	41.00	115 21 36	36 48 36
00	43	42.00	115 34 12	36 39 36
00	43	43.00	115 42 36	36 31 48
00	43	44.00	115 53 24	36 22 48
00	43	45.00	116 04 12	36 14 24
00	43	46.00	116 15 00	36 05 24
00	43	47.00	116 27 00	36 00 36
00	43	48.00	116 37 48	35 52 12
00	43	49.00	116 49 48	35 45 00
00	43	50.00	117 01 12	35 36 36
00	43	51.00	117 13 12	35 29 24
00	43	52.00	117 25 12	35 21 36
00	43	53.00	117 32 24	35 14 24
00	43	54.00	117 40 12	35 05 24
00	43	55.00	117 53 24	34 58 12
00	43	56.00	118 07 12	34 51 00
00	43	57.00	118 14 24	34 43 12
00	43	58.00	118 27 36	34 34 12
00	43	59.00	118 36 00	34 27 36
00	44	00.00	118 48 00	34 20 24
00	44	01.00	119 00 36	34 13 12
00	44	02.00	119 05 24	34 04 12
00	44	03.00	119 13 48	33 57 36
00	44	04.00	119 24 00	33 49 12
00	44	05.00	119 33 00	33 41 24
00	44	06.00	119 42 36	33 34 12
00	44	07.00	119 52 48	33 25 12
00	44	08.00	120 01 48	33 18 36
00	44	09.00	120 13 12	33 11 24
00	44	10.00	120 21 00	33 03 36
00	44	11.00	120 30 36	32 57 36
00	44	12.00	120 38 24	32 51 00
00	44	13.00	120 51 00	32 42 36
00	44	14.00	120 59 24	32 35 24
00	44	15.00	121 09 36	32 28 12
00	44	16.00	121 15 36	32 19 48
00	44	17.00	121 24 36	32 12 36
00	44	18.00	121 33 00	32 05 24
00	44	19.00	121 40 12	31 58 48
00	44	20.00	121 50 24	31 51 36
00	44	21.00	121 57 36	31 44 24
00	44	22.00	122 05 24	31 37 48
00	44	23.00	122 15 36	31 31 12
00	44	24.00	122 23 24	31 24 36
00	44	25.00	122 33 36	31 16 48
00	44	26.00	122 45 00	31 09 00
00	44	27.00	122 47 24	31 01 48
00	44	28.00	122 56 24	30 55 12
00	44	29.00	122 59 24	30 48 00
00	44	30.00	123 04 48	30 40 12
00	44	31.00	123 17 24	30 33 00
00	44	32.00	123 25 12	30 26 24
00	44	33.00	123 33 36	30 19 48
00	44	34.00	123 42 00	30 14 24
00	44	35.00	123 49 12	30 07 12
00	44	36.00	123 56 24	29 59 24
00	44	37.00	124 03 36	29 53 24
00	44	38.00	124 12 00	29 46 12
00	44	39.00	124 19 48	29 39 36
00	44	40.00	124 28 12	29 33 00
00	44	41.00	124 32 24	29 25 48

HR	MIN	SEC	AZIMUTH	ELEVATION
00	44	42.00	124 41 24	29 18 00
00	44	43.00	124 47 24	29 11 24
00	44	44.00	124 56 24	29 05 24
00	44	45.00	125 03 00	29 00 00
00	44	46.00	125 09 36	28 53 24
00	44	47.00	125 15 36	28 46 12
00	44	48.00	125 20 24	28 40 12
00	44	49.00	125 28 12	28 33 00
00	44	50.00	125 32 24	28 26 24
00	44	51.00	125 40 48	28 18 36
00	44	52.00	125 47 24	28 12 36
00	44	53.00	125 51 36	28 04 48
00	44	54.00	126 02 24	28 00 00
00	44	55.00	126 09 00	27 53 24
00	44	56.00	126 15 00	27 48 00
00	44	57.00	126 21 36	27 42 00
00	44	58.00	126 28 12	27 34 48
00	44	59.00	126 31 12	27 29 24
00	45	00.00	126 38 24	27 12 00
00	45	01.00	126 44 24	27 11 24
00	45	02.00	126 51 00	27 04 48
00	45	03.00	127 00 36	27 04 48
00	45	04.00	127 06 36	26 57 36
00	45	05.00	127 10 48	26 52 12
00	45	06.00	127 14 24	26 46 12
00	45	07.00	127 18 00	26 37 12
00	45	08.00	127 24 36	26 31 48
00	45	09.00	127 31 12	26 25 48
00	45	10.00	127 39 36	26 19 48
00	45	11.00	127 47 24	26 13 12
00	45	12.00	127 51 36	26 07 48
00	45	13.00	127 57 00	26 03 00
00	45	14.00	128 03 36	25 57 00
00	45	15.00	128 09 36	25 51 36
00	45	16.00	128 13 12	25 45 36
00	45	17.00	128 17 24	25 39 36
00	45	18.00	128 23 24	25 33 00
00	45	19.00	128 28 12	25 27 36
00	45	20.00	128 34 48	25 21 00
00	45	21.00	128 39 00	25 15 00
00	45	22.00	128 43 48	25 07 48
00	45	23.00	128 51 00	25 03 00
00	45	24.00	128 57 36	24 57 36
00	45	25.00	129 00 36	24 51 00
00	45	26.00	129 09 36	24 45 36
00	45	27.00	129 12 36	24 39 36
00	45	28.00	129 15 00	24 33 36
00	45	29.00	129 20 24	24 28 12
00	45	30.00	129 26 24	24 22 12
00	45	31.00	129 30 00	24 15 00
00	45	32.00	129 36 36	24 10 48
00	45	33.00	129 39 36	24 03 36
00	45	34.00	129 45 00	23 57 36
00	45	35.00	129 49 48	23 52 48
00	45	36.00	129 56 24	23 48 00
00	45	37.00	130 00 36	23 42 36
00	45	38.00	130 05 24	23 34 48
00	45	39.00	130 08 24	23 29 24
00	45	40.00	130 12 36	23 25 12
00	45	41.00	130 13 12	23 20 24
00	45	42.00	130 22 48	23 15 00
00	45	43.00	130 28 48	23 10 48
00	45	44.00	130 34 12	23 06 00
00	45	45.00	130 37 48	22 58 12
00	45	46.00	130 42 00	22 54 36
00	45	47.00	130 44 24	22 49 48
00	45	48.00	130 51 36	22 43 48
00	45	49.00	130 54 36	22 38 24
00	45	50.00	131 00 36	22 33 00
00	45	51.00	131 03 36	22 28 48

PATRICK AFB THEOD. STA. 1-3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
00	45	52.00	131 08 24	22 22 12
00	45	53.00	131 12 00	22 17 24
00	45	54.00	131 14 24	22 12 36
00	45	55.00	131 19 48	22 07 12
00	45	56.00	131 28 12	22 01 12
00	45	57.00	131 33 00	21 55 48
00	45	58.00	131 35 24	21 49 12
00	45	59.00	131 39 36	21 45 00
00	46	00.00	131 42 36	21 40 12
00	46	01.00	131 49 12	21 34 48
00	46	02.00	131 54 36	21 30 00
00	46	03.00	131 58 12	21 24 36
00	46	04.00	132 03 00	21 20 24
00	46	05.00	132 05 24	21 15 00
00	46	06.00	132 10 12	21 09 36
00	46	07.00	132 13 48	21 04 12
00	46	08.00	132 16 12	20 58 12
00	46	09.00	132 19 12	20 54 00
00	46	10.00	132 22 12	20 49 48
00	46	11.00	132 25 48	20 43 48
00	46	12.00	132 32 24	20 40 12
00	46	13.00	132 38 24	20 34 48
00	46	14.00	132 42 36	20 29 24
00	46	15.00	132 45 00	20 25 48
00	46	16.00	132 47 24	20 19 48
00	46	17.00	132 52 48	20 15 00
00	46	18.00	132 57 00	20 10 12
00	46	19.00	133 00 36	20 04 48
00	46	20.00	133 04 12	20 00 36
00	46	21.00	133 07 12	19 55 12
00	46	22.00	133 10 12	19 48 36
00	46	23.00	133 13 48	19 43 48
00	46	24.00	133 16 48	19 39 36
00	46	25.00	133 18 00	19 36 36
00	46	26.00	133 21 00	19 30 00
00	46	27.00	133 27 00	19 25 48
00	46	28.00	133 30 36	19 20 24
00	46	29.00	133 34 12	19 15 00
00	46	30.00	133 37 48	19 10 48
00	46	31.00	133 42 36	19 06 00
00	46	32.00	133 47 24	19 03 00
00	46	33.00	133 48 36	18 58 12
00	46	34.00	133 52 48	18 54 00
00	46	35.00	133 55 48	18 48 36
00	46	36.00	133 58 48	18 43 48
00	46	37.00	134 01 12	18 39 00
00	46	38.00	134 02 24	18 34 48
00	46	39.00	134 04 48	18 30 00
00	46	40.00	134 06 36	18 25 12
00	46	41.00	134 09 00	18 20 24
00	46	42.00	134 13 12	18 15 36
00	46	43.00	134 22 48	18 10 12
00	46	44.00	134 25 48	18 05 24
00	46	45.00	134 28 48	18 02 24
00	46	46.00	134 32 24	17 58 48
00	46	47.00	134 36 36	17 54 00
00	46	48.00	134 43 12	17 49 48
00	46	49.00	134 45 00	17 43 12
00	46	50.00	134 47 24	17 39 36
00	46	51.00	134 49 48	17 34 48
00	46	52.00	134 52 48	17 30 00
00	46	53.00	134 55 48	17 26 24
00	46	54.00	134 56 24	17 22 12
00	46	55.00	134 59 24	17 19 36
00	46	56.00	135 03 00	17 12 00
00	46	57.00	135 05 24	17 07 12
00	46	58.00	135 09 00	17 03 36

HR	MIN	SEC	AZIMUTH	ELEVATION
00	46	59.00	135 13 48	16 59 24
00	47	00.00	135 17 24	16 55 48
00	47	01.00	135 19 12	16 52 48
00	47	02.00	135 21 36	16 48 00
00	47	03.00	135 25 48	16 42 36
00	47	04.00	135 28 48	16 39 00
00	47	05.00	135 31 12	16 34 48
00	47	06.00	135 33 36	16 30 36
00	47	07.00	135 36 36	16 26 24
00	47	08.00	135 39 00	16 21 36
00	47	09.00	135 41 24	16 18 00
00	47	10.00	135 43 48	16 13 48
00	47	11.00	135 46 48	16 09 00
00	47	12.00	135 48 36	16 04 12
00	47	13.00	135 52 12	15 58 48
00	47	14.00	135 55 12	15 55 12
00	47	15.00	135 58 48	15 51 00
00	47	16.00	136 01 12	15 47 24
00	47	17.00	136 04 12	15 43 12
00	47	18.00	136 06 36	15 38 24
00	47	19.00	136 09 00	15 33 36
00	47	20.00	136 12 00	15 29 24
00	47	21.00	136 15 00	15 20 24
00	47	22.00	136 16 48	15 22 48
00	47	23.00	136 19 48	15 18 00
00	47	24.00	136 23 24	15 15 00
00	47	25.00	136 24 36	15 10 48
00	47	26.00	136 27 00	15 07 12
00	47	27.00	136 27 36	15 01 48
00	47	28.00	136 28 48	14 58 12
00	47	29.00	136 34 48	14 54 00
00	47	30.00	136 39 00	14 49 48
00	47	31.00	136 42 36	14 46 12
00	47	32.00	136 44 24	14 43 12
00	47	33.00	136 48 36	14 39 00
00	47	34.00	136 53 24	14 36 00
00	47	35.00	136 57 00	14 32 24
00	47	36.00	137 02 24	14 28 48
00	47	37.00	137 06 00	14 25 12
00	47	38.00	137 12 00	14 22 12
00	47	39.00	137 13 48	14 18 36
00	47	40.00	137 19 12	14 15 00
00	47	41.00	137 32 24	14 14 24
00	47	42.00	137 48 00	14 09 36
00	47	43.00	137 38 24	14 03 00
00	47	44.00	137 35 24	13 58 12
00	47	45.00	137 31 12	13 57 00
00	47	46.00	137 34 48	13 46 48
00	47	47.00	137 22 12	13 45 00
00	47	48.00	137 21 36	13 40 48
00	47	49.00	137 24 00	13 34 48
00	47	50.00	137 25 48	13 31 48
00	47	51.00	137 30 36	13 27 00
00	47	52.00	137 32 24	13 22 48
00	47	53.00	137 34 48	13 19 48
00	47	54.00	137 37 12	13 16 12
00	47	55.00	137 39 00	13 12 00
00	47	56.00	137 41 24	13 09 00
00	47	57.00	137 42 00	13 06 36
00	47	58.00	137 42 36	13 02 24
00	47	59.00	137 43 12	12 56 24
00	48	00.00	137 46 12	12 53 24
00	48	01.00	137 50 24	12 49 48
00	48	02.00	137 54 36	12 45 36
00	48	03.00	137 58 12	12 42 36
00	48	04.00	138 01 12	12 39 36

PATRICK AFB THEODOS STAs 1,20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

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HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	29	08:00	260 34 32	19 14 24	02	30	19:00	246 41 24	20 16 12
02	29	09:00	260 23 24	19 14 24	02	30	19:00	246 28 48	20 16 48
02	29	10:00	260 06 36	19 06 36	02	30	20:00	246 17 24	20 16 48
02	29	11:00	259 52 12	19 06 00	02	30	21:00	246 07 48	20 16 48
02	29	12:00	259 40 12	19 15 36	02	30	22:00	245 56 24	20 16 48
02	29	13:00	259 28 48	19 15 00	02	30	23:00	245 43 48	20 16 12
02	29	14:00	259 14 24	19 19 12	02	30	24:00	245 34 48	20 16 12
02	29	15:00	259 03 00	19 21 36	02	30	25:00	245 22 48	20 16 12
02	29	16:00	258 52 12	19 24 36	02	30	26:00	245 11 24	20 16 12
02	29	17:00	258 42 00	19 27 00	02	30	27:00	244 59 24	20 16 12
02	29	18:00	258 31 12	19 22 12	02	30	28:00	244 47 24	20 16 12
02	29	19:00	258 14 24	19 21 36	02	30	29:00	244 35 24	20 16 12
02	29	20:00	258 06 00	19 27 00	02	30	30:00	244 26 00	20 16 12
02	29	21:00	257 50 24	19 27 36	02	30	31:00	244 13 12	20 16 12
02	29	22:00	257 40 48	19 27 00	02	30	32:00	244 03 00	20 16 12
02	29	23:00	257 36 36	19 28 12	02	30	33:00	243 53 24	20 16 12
02	29	24:00	257 31 12	19 27 36	02	30	34:00	243 42 00	20 16 12
02	29	25:00	257 12 48	19 34 12	02	30	35:00	243 29 24	20 16 12
02	29	26:00	256 51 36	19 37 12	02	30	36:00	243 15 00	20 16 12
02	29	27:00	256 34 48	19 39 00	02	30	37:00	243 04 12	20 16 12
02	29	28:00	256 27 36	19 39 36	02	30	38:00	242 54 36	20 16 12
02	29	29:00	256 18 36	19 40 48	02	30	39:00	242 42 36	20 13 12
02	29	30:00	256 07 48	19 42 36	02	30	40:00	242 31 48	20 16 12
02	29	31:00	255 58 48	19 43 00	02	30	41:00	242 24 00	20 15 36
02	29	32:00	255 50 24	19 43 36	02	30	42:00	242 12 00	20 15 00
02	29	33:00	255 36 36	19 47 24	02	30	43:00	241 57 36	20 13 48
02	29	34:00	255 27 00	19 44 24	02	30	44:00	241 46 48	20 13 12
02	29	35:00	255 06 00	19 46 48	02	30	45:00	241 36 00	20 13 12
02	29	36:00	254 55 12	19 47 24	02	30	46:00	241 24 00	20 13 12
02	29	37:00	254 46 12	19 48 36	02	30	47:00	241 13 48	20 12 00
02	29	38:00	254 39 36	19 49 48	02	30	48:00	241 03 00	20 11 24
02	29	39:00	254 31 12	19 51 00	02	30	49:00	240 49 12	20 11 24
02	29	40:00	254 22 48	19 51 00	02	30	50:00	240 40 12	20 10 48
02	29	41:00	254 01 12	19 51 36	02	30	51:00	240 28 12	20 09 36
02	29	42:00	253 41 24	19 51 36	02	30	52:00	240 17 24	20 09 36
02	29	43:00	253 32 24	19 52 48	02	30	53:00	240 07 48	20 09 36
02	29	44:00	253 23 24	20 02 24	02	30	54:00	239 56 24	20 08 24
02	29	45:00	253 15 36	19 53 48	02	30	55:00	239 45 36	20 08 24
02	29	46:00	253 06 36	19 52 12	02	30	56:00	239 36 00	20 07 48
02	29	47:00	252 52 12	19 51 36	02	30	57:00	239 23 24	20 07 48
02	29	48:00	252 42 36	19 51 36	02	30	58:00	239 12 00	20 06 36
02	29	49:00	252 24 00	19 52 36	02	30	59:00	239 00 00	20 06 36
02	29	50:00	252 07 48	20 03 24	02	31	00:00	238 50 24	20 06 00
02	29	51:00	251 58 12	20 03 24	02	31	01:00	238 39 00	20 05 24
02	29	52:00	251 45 00	19 59 24	02	31	02:00	238 28 48	20 04 48
02	29	53:00	251 34 12	20 03 00	02	31	03:00	238 18 00	20 03 36
02	29	54:00	251 23 24	20 03 00	02	31	04:00	238 07 48	20 02 24
02	29	55:00	251 13 48	20 03 00	02	31	05:00	237 58 12	20 00 36
02	29	56:00	251 02 24	20 03 00	02	31	06:00	237 46 12	20 01 12
02	29	57:00	250 46 00	20 07 48	02	31	07:00	237 34 48	20 01 12
02	29	58:00	250 34 12	20 08 24	02	31	08:00	237 24 00	20 00 00
02	29	59:00	250 22 12	20 07 12	02	31	09:00	237 12 00	19 59 24
02	30	00:00	250 12 00	20 07 48	02	31	10:00	237 03 36	19 57 36
02	30	01:00	250 03 00	20 09 00	02	31	11:00	236 58 12	19 57 36
02	30	02:00	249 52 48	20 10 48	02	31	12:00	236 45 00	19 57 36
02	30	03:00	249 40 12	20 10 48	02	31	13:00	236 33 00	19 54 36
02	30	04:00	249 27 36	20 10 12	02	31	14:00	236 19 48	19 54 36
02	30	05:00	249 12 00	20 10 12	02	31	15:00	236 09 00	19 53 24
02	30	06:00	248 01 12	20 11 24	02	31	16:00	236 00 00	19 52 48
02	30	07:00	248 48 36	20 12 00	02	31	17:00	235 49 12	19 51 36
02	30	08:00	248 37 48	20 13 12	02	31	18:00	235 38 24	19 51 36
02	30	09:00	248 27 00	20 13 48	02	31	19:00	235 28 48	19 50 24
02	30	10:00	248 18 00	20 13 48	02	31	20:00	235 20 24	19 48 36
02	30	11:00	248 06 36	20 14 24	02	31	21:00	235 08 24	19 48 00
02	30	12:00	247 53 24	20 15 00	02	31	22:00	234 55 12	19 46 48
02	30	13:00	247 40 48	20 15 00	02	31	23:00	234 46 12	19 46 12
02	30	14:00	247 28 48	20 15 00	02	31	24:00	234 36 00	19 45 00
02	30	15:00	247 15 36	20 15 00	02	31	25:00	234 24 36	19 43 48
02	30	16:00	247 04 48	20 15 00	02	31	26:00	234 16 48	19 42 36
02	30	17:00	246 53 12	20 15 00	02	31	27:00	234 10 12	19 42 36

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

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HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	31	28.00	233 58 48	19 40 12	02	32	38.00	222 57 00	17 49 12
02	31	29.00	233 45 36	19 38 24	02	32	39.00	222 48 00	17 47 24
02	31	30.00	233 34 12	19 37 48	02	32	40.00	222 39 36	17 44 24
02	31	31.00	233 22 48	19 36 00	02	32	41.00	222 31 12	17 42 00
02	31	32.00	233 14 24	19 34 12	02	32	42.00	222 24 36	17 40 12
02	31	33.00	233 03 00	19 34 48	02	32	43.00	222 15 36	17 39 00
02	31	34.00	232 53 24	19 33 36	02	32	44.00	222 04 48	17 37 12
02	31	35.00	232 41 24	19 31 48	02	32	45.00	221 56 24	17 34 48
02	31	36.00	232 33 00	19 30 00	02	32	46.00	221 49 48	17 32 24
02	31	37.00	232 22 46	19 29 24	02	32	47.00	221 41 24	17 30 36
02	31	38.00	232 13 48	19 28 12	02	32	48.00	221 33 00	17 28 48
02	31	39.00	232 03 36	19 27 00	02	32	49.00	221 23 24	17 25 48
02	31	40.00	231 53 24	19 25 48	02	32	50.00	221 16 12	17 24 36
02	31	41.00	231 42 36	19 24 00	02	32	51.00	221 05 24	17 21 36
02	31	42.00	231 34 12	19 22 48	02	32	52.00	220 57 00	17 19 12
02	31	43.00	231 28 48	19 22 12	02	32	53.00	220 48 36	17 16 00
02	31	44.00	231 15 36	19 19 48	02	32	54.00	220 42 36	17 15 36
02	31	45.00	231 04 48	19 18 36	02	32	55.00	220 35 24	17 14 24
02	31	46.00	230 53 24	19 17 24	02	32	56.00	220 27 00	17 12 36
02	31	47.00	230 43 48	19 16 12	02	32	57.00	220 20 24	17 10 48
02	31	48.00	230 33 36	19 15 00	02	32	58.00	220 12 36	17 08 24
02	31	49.00	230 24 00	19 13 48	02	32	59.00	220 02 24	17 07 12
02	31	50.00	230 16 12	19 12 00	02	33	00.00	219 56 24	17 06 00
02	31	51.00	230 08 24	19 10 12	02	33	01.00	219 48 00	17 01 12
02	31	52.00	229 57 00	19 08 24	02	33	02.00	219 40 12	17 00 00
02	31	53.00	229 45 36	19 07 12	02	33	03.00	219 31 12	16 57 00
02	31	54.00	229 37 12	19 04 48	02	33	04.00	219 24 00	16 54 36
02	31	55.00	229 25 12	19 03 36	02	33	05.00	219 16 48	16 52 48
02	31	56.00	229 16 46	19 02 24	02	33	06.00	219 10 12	16 51 00
02	31	57.00	229 09 00	19 01 46	02	33	07.00	219 06 00	16 48 36
02	31	58.00	229 01 48	19 00 36	02	33	08.00	218 55 48	16 46 46
02	31	59.00	228 52 12	18 58 48	02	33	09.00	218 46 48	16 45 00
02	32	00.00	228 39 00	18 56 24	02	33	10.00	218 36 00	16 42 00
02	32	01.00	228 29 24	18 55 12	02	33	11.00	218 28 48	16 40 12
02	32	02.00	228 19 12	18 53 24	02	33	12.00	218 21 00	16 37 48
02	32	03.00	228 09 00	18 51 36	02	33	13.00	218 15 00	16 36 36
02	32	04.00	228 01 12	18 50 24	02	33	14.00	218 09 00	16 34 12
02	32	05.00	227 51 36	18 48 00	02	33	15.00	218 00 00	16 33 00
02	32	06.00	227 43 12	18 46 12	02	33	16.00	217 53 24	16 28 12
02	32	07.00	227 34 12	18 43 48	02	33	17.00	217 44 24	16 27 00
02	32	08.00	227 23 24	18 43 12	02	33	18.00	217 37 48	16 24 00
02	32	09.00	227 14 24	18 41 24	02	33	19.00	217 30 00	16 21 36
02	32	10.00	227 06 00	18 40 48	02	33	20.00	217 21 36	16 19 12
02	32	11.00	226 56 24	18 39 00	02	33	21.00	217 13 48	16 18 00
02	32	12.00	226 47 24	18 37 12	02	33	22.00	217 07 12	16 15 36
02	32	13.00	226 38 24	18 36 00	02	33	23.00	216 56 48	16 13 48
02	32	14.00	226 30 00	18 34 48	02	33	24.00	216 52 48	16 12 00
02	32	15.00	226 21 00	18 30 36	02	33	25.00	216 45 00	16 09 00
02	32	16.00	226 11 24	18 28 12	02	33	26.00	216 36 36	16 07 12
02	32	17.00	226 03 00	18 27 36	02	33	27.00	216 29 24	16 04 12
02	32	18.00	225 53 24	18 26 24	02	33	28.00	216 22 12	16 01 12
02	32	19.00	225 43 48	18 24 36	02	33	29.00	216 15 36	16 00 00
02	32	20.00	225 36 36	18 24 00	02	33	30.00	216 07 48	15 57 36
02	32	21.00	225 28 12	18 22 12	02	33	31.00	216 00 00	15 54 00
02	32	22.00	225 16 48	18 20 24	02	33	32.00	215 51 36	15 51 36
02	32	23.00	225 06 36	18 17 24	02	33	33.00	215 46 12	15 49 48
02	32	24.00	224 58 12	18 15 00	02	33	34.00	215 40 12	15 47 24
02	32	25.00	224 49 48	18 13 48	02	33	35.00	215 31 12	15 45 36
02	32	26.00	224 41 24	18 13 48	02	33	36.00	215 25 12	15 43 48
02	32	27.00	224 33 36	18 10 12	02	33	37.00	215 18 00	15 42 36
02	32	28.00	224 23 24	18 09 00	02	33	38.00	215 13 12	15 39 36
02	32	29.00	224 11 24	18 06 36	02	33	39.00	215 04 48	15 37 12
02	32	30.00	224 02 24	18 02 24	02	33	40.00	214 58 12	15 34 12
02	32	31.00	223 57 00	18 02 24	02	33	41.00	214 48 36	15 31 48
02	32	32.00	223 50 24	18 00 00	02	33	42.00	214 42 00	15 29 24
02	32	33.00	223 40 48	17 58 48	02	33	43.00	214 34 12	15 26 24
02	32	34.00	223 33 00	17 56 24	02	33	44.00	214 28 12	15 23 24
02	32	35.00	223 22 48	17 55 12	02	33	45.00	214 23 24	15 21 00
02	32	36.00	223 15 36	17 53 24	02	33	46.00	214 15 36	15 18 00
02	32	37.00	223 04 48	17 51 36	02	33	47.00	214 09 36	15 15 36

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

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HR	MIN	SEC	AZIMUTH	ELEVATION
02	33	48.00	214 01 48	15 14 24
02	33	49.00	213 55 12	15 12 36
02	33	50.00	213 47 24	15 09 36
02	33	51.00	213 40 48	15 07 48
02	33	52.00	213 34 48	15 06 36
02	33	53.00	213 27 36	15 01 48
02	33	54.00	213 21 36	14 58 12
02	33	55.00	213 15 00	14 56 24
02	33	56.00	213 06 36	14 55 12
02	33	57.00	212 59 24	14 54 00
02	33	58.00	212 53 24	14 52 12
02	33	59.00	212 47 24	14 48 00
02	34	00.00	212 40 48	14 46 48
02	34	01.00	212 33 36	14 44 24
02	34	02.00	212 26 24	14 43 12
02	34	03.00	212 19 12	14 39 00
02	34	04.00	212 15 36	14 37 12
02	34	05.00	212 07 48	14 34 48
02	34	06.00	212 01 48	14 31 48
02	34	07.00	211 55 48	14 30 00
02	34	08.00	211 49 48	14 27 36
02	34	09.00	211 44 24	14 26 24
02	34	10.00	211 41 24	14 21 36
02	34	11.00	211 33 00	14 20 24
02	34	12.00	211 24 36	14 16 48
02	34	13.00	211 18 00	14 13 48
02	34	14.00	211 11 24	14 12 00
02	34	15.00	211 04 48	14 09 36
02	34	16.00	210 58 48	14 08 24
02	34	17.00	210 51 36	14 06 36
02	34	18.00	210 45 36	14 04 48
02	34	19.00	210 39 36	14 00 36
02	34	20.00	210 33 36	13 57 36
02	34	21.00	210 27 00	13 54 36
02	34	26.00	209 48 36	13 40 12
02	34	27.00	209 48 00	13 39 36
02	34	28.00	209 42 00	13 38 24
02	34	29.00	209 38 24	13 35 24
02	34	30.00	209 32 24	13 31 48
02	34	31.00	209 26 24	13 29 24
02	34	32.00	209 22 12	13 28 12
02	34	33.00	209 16 12	13 25 48
02	34	34.00	209 10 12	13 21 36
02	34	35.00	209 04 12	13 19 12
02	34	36.00	208 58 48	13 18 00
02	34	37.00	208 51 36	13 14 24
02	34	38.00	208 48 36	13 12 00
02	34	39.00	208 43 48	13 06 36

HR	MIN	SEC	AZIMUTH	ELEVATION
02	34	40.00	208 37 48	13 04 12
02	34	41.00	208 30 36	13 03 00
02	34	42.00	208 22 48	13 02 24
02	34	43.00	208 17 24	13 01 12
02	34	44.00	208 11 24	12 58 12
02	34	45.00	208 06 36	12 57 00
02	34	46.00	208 00 36	12 52 48
02	34	47.00	207 55 48	12 51 36
02	34	48.00	207 51 36	12 50 24
02	34	49.00	207 48 36	12 46 12
02	34	50.00	207 37 48	12 42 36
02	34	51.00	207 31 48	12 41 24
02	34	52.00	207 26 24	12 39 00
02	34	53.00	207 21 00	12 36 00
02	34	54.00	207 15 36	12 34 12
02	34	55.00	207 09 36	12 30 00
02	34	56.00	207 02 24	12 25 48
02	34	57.00	206 58 12	12 22 48
02	34	58.00	206 54 00	12 22 12
02	35	00.00	206 42 36	12 18 36
02	35	01.00	206 37 12	12 16 12
02	35	02.00	206 32 24	12 13 12
02	35	03.00	206 24 36	12 10 48
02	35	04.00	206 17 24	12 06 00
02	35	05.00	206 12 00	12 03 36
02	35	06.00	206 09 36	12 03 00
02	35	07.00	206 04 48	12 01 12
02	35	08.00	206 00 00	11 58 48
02	35	09.00	205 55 12	11 57 36
02	35	10.00	205 51 00	11 55 12
02	35	11.00	205 45 00	11 54 00
02	35	12.00	205 40 48	11 54 00
02	35	13.00	205 34 48	11 51 00
02	35	14.00	205 30 00	11 46 48
02	35	15.00	205 22 48	11 40 12
02	35	16.00	205 18 36	11 39 00
02	35	17.00	205 14 24	11 36 00
02	35	18.00	205 09 36	11 34 12
02	35	19.00	205 05 24	11 31 48
02	35	20.00	204 58 12	11 28 48
02	35	21.00	204 53 24	11 25 12
02	35	22.00	204 49 48	11 22 48
02	35	23.00	204 46 48	11 18 36
02	35	24.00	204 42 36	11 18 36
02	35	25.00	204 41 24	11 18 00
02	35	26.00	204 34 12	11 18 00
02	35	27.00	204 28 12	11 15 00
02	35	28.00	204 20 24	11 15 00

PATRICK AFB THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 278 23 37 E HT 0005 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	33	25.00	217 10 12	16 17 24
02	33	26.00	216 51 36	16 16 12
02	33	27.00	216 46 48	16 13 48
02	33	28.00	216 41 24	16 12 36
02	33	29.00	216 40 12	16 10 48
02	33	30.00	216 36 36	16 08 24
02	33	31.00	216 33 00	16 04 48
02	33	32.00	216 28 12	16 08 24
02	33	33.00	216 15 00	16 00 36
02	33	34.00	216 01 48	15 57 36
02	33	35.00	215 54 00	15 53 24
02	33	36.00	215 45 36	15 49 48

HR	MIN	SEC	AZIMUTH	ELEVATION
02	33	37.00	215 41 24	15 48 36
02	33	38.00	215 35 24	15 45 36
02	33	39.00	215 31 48	15 42 00
02	33	40.00	215 27 36	15 39 00
02	33	41.00	215 18 00	15 30 00
02	33	42.00	215 01 12	15 40 12
02	33	43.00	214 52 48	15 36 36
02	33	44.00	214 45 00	15 34 12
02	33	45.00	214 37 12	15 32 24
02	33	46.00	214 33 36	15 29 24
02	33	47.00	214 39 00	15 27 36

PATRICK AFB THE00. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

18 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	34	57.00	232 19 48	18 30 00	02	36	05.00	220 07 48	17 56 24
02	34	58.00	232 04 12	18 30 00	02	36	06.00	220 01 12	17 56 24
02	34	59.00	231 51 00	18 24 00	02	36	07.00	219 46 48	17 56 24
02	35	00.00	231 39 00	18 20 24	02	36	08.00	219 28 48	17 56 24
02	35	01.00	231 21 36	18 20 24	02	36	09.00	219 13 48	17 56 24
02	35	02.00	231 08 24	18 20 24	02	36	10.00	219 13 48	17 56 24
02	35	03.00	230 59 24	18 20 24	02	36	11.00	219 13 48	17 56 24
02	35	04.00	230 46 48	18 20 24	02	36	12.00	219 10 12	17 56 24
02	35	05.00	230 32 24	18 20 24	02	36	13.00	218 54 36	17 56 24
02	35	06.00	230 18 36	18 18 36	02	36	14.00	218 53 24	17 55 48
02	35	07.00	230 02 24	18 07 48	02	36	15.00	218 53 24	17 55 48
02	35	08.00	229 45 36	18 07 48	02	36	16.00	218 53 24	17 55 48
02	35	09.00	229 27 36	18 07 48	02	36	17.00	218 53 24	17 50 24
02	35	10.00	229 12 00	18 07 48	02	36	18.00	218 53 24	17 50 24
02	35	11.00	228 54 36	18 07 48	02	36	19.00	218 52 48	17 47 24
02	35	12.00	228 40 48	18 04 48	02	36	20.00	218 52 48	17 42 00
02	35	13.00	228 30 00	18 04 48	02	36	21.00	218 52 48	17 41 24
02	35	14.00	228 16 12	18 04 48	02	36	22.00	218 52 48	17 40 48
02	35	15.00	228 00 00	18 04 48	02	36	23.00	218 52 48	17 37 12
02	35	16.00	227 43 48	18 01 48	02	36	24.00	218 52 48	17 37 12
02	35	17.00	227 28 12	18 01 48	02	36	25.00	218 52 48	17 37 12
02	35	18.00	227 12 36	18 01 12	02	36	26.00	218 53 24	17 37 12
02	35	19.00	226 56 24	17 58 48	02	36	27.00	218 53 24	17 36 36
02	35	20.00	226 38 24	17 58 48	02	36	28.00	218 53 24	17 30 00
02	35	21.00	226 20 24	17 58 48	02	36	29.00	218 53 24	17 29 24
02	35	22.00	225 57 00	17 59 24	02	36	30.00	218 53 24	17 29 24
02	35	23.00	225 41 24	17 59 24	02	36	31.00	218 53 24	17 26 24
02	35	24.00	225 50 24	17 59 24	02	36	32.00	218 53 24	17 25 48
02	35	25.00	224 58 12	17 59 24	02	36	33.00	218 53 24	17 25 48
02	35	26.00	224 45 00	17 59 24	02	36	34.00	218 53 24	17 24 36
02	35	27.00	224 45 00	17 59 24	02	36	35.00	218 53 24	17 24 36
02	35	28.00	224 45 00	17 59 24	02	36	36.00	218 53 24	17 23 24
02	35	29.00	224 42 00	17 59 24	02	36	37.00	218 53 24	17 22 48
02	35	30.00	224 36 00	17 59 24	02	36	38.00	218 52 48	17 21 36
02	35	31.00	224 25 12	17 59 24	02	36	39.00	218 24 00	17 21 36
02	35	32.00	224 18 36	17 59 24	02	36	40.00	217 34 12	17 21 36
02	35	33.00	224 12 36	17 55 12	02	36	41.00	216 57 36	17 21 36
02	35	34.00	224 02 24	17 56 24	02	36	42.00	216 27 36	17 21 36
02	35	35.00	223 54 00	17 56 24	02	36	43.00	215 57 00	17 09 00
02	35	36.00	223 43 48	17 56 24	02	36	44.00	215 20 24	16 54 00
02	35	37.00	223 38 24	17 56 24	02	36	45.00	215 14 24	16 53 24
02	35	38.00	223 30 36	17 56 24	02	36	46.00	214 28 12	16 51 00
02	35	39.00	223 19 12	17 56 24	02	36	47.00	214 08 24	16 47 24
02	35	40.00	223 15 36	17 56 24	02	36	48.00	214 07 48	16 43 48
02	35	41.00	223 15 00	17 56 24	02	36	49.00	213 46 48	16 42 00
02	35	42.00	223 14 24	17 56 24	02	36	50.00	213 18 36	16 40 48
02	35	43.00	223 13 48	17 56 24	02	36	51.00	212 57 36	16 36 36
02	35	44.00	223 13 48	17 56 24	02	36	52.00	212 39 36	16 36 00
02	35	45.00	223 13 48	17 56 24	02	36	53.00	212 18 00	16 33 36
02	35	46.00	223 13 48	17 56 24	02	36	54.00	212 01 12	16 31 12
02	35	47.00	223 13 48	17 56 24	02	36	55.00	211 39 00	16 30 00
02	35	48.00	223 13 48	17 56 24	02	36	56.00	211 17 24	16 25 48
02	35	49.00	223 13 12	17 56 24	02	36	57.00	210 58 12	16 22 48
02	35	50.00	223 05 24	17 56 24	02	36	58.00	210 46 12	16 17 24
02	35	51.00	222 53 24	17 56 24	02	36	59.00	210 43 12	16 15 36
02	35	52.00	222 51 00	17 56 24	02	37	00.00	210 42 00	16 10 48
02	35	53.00	222 49 48	17 56 24	02	37	01.00	210 31 48	16 07 48
02	35	54.00	222 16 48	17 56 24	02	37	02.00	209 55 12	16 01 48
02	35	55.00	221 58 48	17 56 24	02	37	03.00	209 19 12	16 00 00
02	35	56.00	221 58 12	17 56 24	02	37	04.00	208 45 06	16 06 00
02	35	57.00	221 57 00	17 56 24	02	37	05.00	208 18 36	16 04 12
02	35	58.00	221 57 00	17 56 24	02	37	06.00	207 41 24	15 55 48
02	35	59.00	221 42 00	17 56 24	02	37	07.00	207 33 00	16 50 24
02	36	00.00	221 24 00	17 56 24	02	37	08.00	207 05 24	15 48 00
02	36	01.00	220 56 24	17 56 24	02	37	09.00	206 33 36	15 43 48
02	36	02.00	220 38 24	17 56 24	02	37	10.00	205 51 36	15 39 00
02	36	03.00	220 27 00	17 56 24	02	37	11.00	205 42 00	15 33 36
02	36	04.00	220 16 12	17 56 24					

PATRICK AFB THEOD. STA. 1.3 LAT. 28 16 17 N LONG. 279 23 37 E HT 0005 M

19 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
01	20	01.00	306 53 24	31 39 00	01	21	11.00	289 13 48	45 31 48
01	20	02.00	306 43 48	31 41 24	01	21	12.00	288 49 12	45 43 48
01	20	03.00	306 30 00	31 59 24	01	21	13.00	288 32 24	45 55 48
01	20	04.00	306 19 48	32 12 36	01	21	14.00	288 16 12	46 06 36
01	20	05.00	306 10 48	32 24 00	01	21	15.00	287 43 48	46 21 36
01	20	06.00	306 00 36	32 35 24	01	21	16.00	287 19 12	46 29 24
01	20	07.00	305 49 48	32 47 24	01	21	17.00	286 55 12	46 42 00
01	20	08.00	305 39 00	32 57 00	01	21	18.00	286 34 48	46 55 12
01	20	09.00	305 27 36	33 09 00	01	21	19.00	286 10 48	47 03 00
01	20	10.00	305 18 00	33 20 24	01	21	20.00	285 54 00	47 15 00
01	20	11.00	305 08 24	33 29 24	01	21	21.00	285 26 24	47 24 00
01	20	12.00	304 56 24	33 44 24	01	21	22.00	285 09 36	47 34 12
01	20	13.00	304 48 00	33 55 48	01	21	23.00	284 35 24	47 49 12
01	20	14.00	304 30 00	34 04 48	01	21	24.00	284 06 00	48 00 36
01	20	15.00	304 18 00	34 16 48	01	21	25.00	283 44 24	48 10 48
01	20	16.00	304 07 48	34 28 12	01	21	26.00	283 22 48	48 25 12
01	20	17.00	303 55 48	34 40 12	01	21	27.00	282 57 36	48 35 24
01	20	18.00	303 45 36	34 52 12	01	21	28.00	282 30 00	48 46 12
01	20	19.00	303 32 24	35 03 36	01	21	29.00	282 06 36	48 59 24
01	20	20.00	303 18 36	35 13 12	01	21	30.00	281 40 48	49 07 12
01	20	21.00	303 04 48	35 25 48	01	21	31.00	281 12 00	49 18 00
01	20	22.00	302 53 24	35 38 24	01	21	32.00	280 46 48	49 29 24
01	20	23.00	302 40 48	35 52 48	01	21	33.00	280 18 36	49 39 00
01	20	24.00	302 27 00	36 02 24	01	21	34.00	279 52 12	49 49 48
01	20	25.00	302 13 48	36 14 24	01	21	35.00	279 24 36	49 57 36
01	20	26.00	302 02 24	36 28 12	01	21	36.00	278 57 00	50 08 24
01	20	27.00	301 50 24	36 37 48	01	21	37.00	278 33 00	50 19 48
01	20	28.00	301 36 00	36 49 48	01	21	38.00	278 03 36	50 30 00
01	20	29.00	301 27 36	37 03 36	01	21	39.00	277 29 24	50 40 12
01	20	30.00	301 06 36	37 12 36	01	21	40.00	276 58 48	50 50 24
01	20	31.00	300 55 48	37 26 24	01	21	41.00	276 33 00	51 00 36
01	20	32.00	300 42 00	37 37 12	01	21	42.00	276 02 24	51 07 12
01	20	33.00	300 23 24	37 49 48	01	21	43.00	275 33 00	51 18 36
01	20	34.00	300 06 36	38 03 00	01	21	44.00	275 04 48	51 27 36
01	20	35.00	299 55 12	38 11 24	01	21	45.00	274 38 24	51 37 12
01	20	36.00	299 46 12	38 19 12	01	21	46.00	274 03 00	51 45 36
01	20	37.00	299 24 00	38 37 48	01	21	47.00	273 33 36	51 54 00
01	20	38.00	299 10 12	38 51 00	01	21	48.00	273 00 36	52 05 24
01	20	39.00	298 54 00	39 04 12	01	21	49.00	272 31 12	52 11 24
01	20	40.00	298 42 00	39 14 24	01	21	50.00	271 58 48	52 22 12
01	20	41.00	298 25 12	39 28 12	01	21	51.00	271 26 24	52 30 36
01	20	42.00	298 10 48	39 40 12	01	21	52.00	270 55 12	52 36 36
01	20	43.00	297 53 24	39 49 12	01	21	53.00	270 28 12	52 44 24
01	20	44.00	297 40 12	40 04 12	01	21	54.00	269 51 36	52 54 00
01	20	45.00	297 22 48	40 16 12	01	21	55.00	269 18 36	53 03 00
01	20	46.00	297 05 24	40 27 36	01	21	56.00	268 42 00	53 09 36
01	20	47.00	296 48 00	40 40 12	01	21	57.00	268 09 00	53 16 48
01	20	48.00	296 31 48	40 52 48	01	21	58.00	267 38 24	53 22 48
01	20	49.00	296 16 12	41 04 48	01	21	59.00	267 07 48	53 30 00
01	20	50.00	295 57 36	41 16 12	01	22	00.00	266 28 48	53 37 48
01	20	51.00	295 39 00	41 25 48	01	22	01.00	265 54 00	53 45 36
01	20	52.00	295 21 36	41 41 24	01	22	02.00	265 13 48	53 53 24
01	20	53.00	295 06 00	41 53 24	01	22	03.00	264 51 00	54 01 12
01	20	54.00	294 44 24	42 05 24	01	22	04.00	264 21 36	54 04 48
01	20	55.00	294 27 36	42 16 48	01	22	05.00	263 39 36	54 11 24
01	20	56.00	294 10 48	42 30 36	01	22	06.00	263 03 36	54 16 12
01	20	57.00	293 55 12	42 43 12	01	22	07.00	262 30 00	54 22 48
01	20	58.00	293 36 00	42 54 36	01	22	08.00	261 54 00	54 30 00
01	20	59.00	293 17 24	43 08 24	01	22	09.00	261 18 36	54 34 48
01	21	00.00	292 57 00	43 19 12	01	22	10.00	260 40 12	54 39 36
01	21	01.00	292 36 36	43 30 36	01	22	11.00	260 01 48	54 43 48
01	21	02.00	292 15 48	43 45 00	01	22	12.00	259 27 36	54 48 36
01	21	03.00	291 58 48	43 54 00	01	22	13.00	258 51 36	54 54 36
01	21	04.00	291 36 36	44 09 00	01	22	14.00	258 16 48	55 01 12
01	21	05.00	291 19 48	44 21 36	01	22	15.00	257 44 24	55 03 00
01	21	06.00	290 58 12	44 28 12	01	22	16.00	257 06 00	55 07 48
01	21	07.00	290 39 36	44 33 00	01	22	17.00	256 24 36	55 11 24
01	21	08.00	290 18 36	44 51 00	01	22	18.00	255 47 24	55 13 48
01	21	09.00	289 55 12	45 07 12	01	22	19.00	255 12 00	55 16 48
01	21	10.00	289 37 12	45 21 36	01	22	20.00	254 34 12	55 21 00

PATRICK AFB THEOD. STA. 1.3

LAT. 28 16 17 N

LONG. 279 23 37 E

HT 0005 M

19 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	22	21.00	253 58 12	55 24 36
01	22	22.00	253 24 00	55 27 36
01	22	23.00	252 51 36	55 30 00
01	22	24.00	252 13 12	55 31 48
01	22	25.00	251 28 12	55 34 48
01	22	26.00	250 50 24	55 37 12
01	22	27.00	250 10 48	55 39 36
01	22	28.00	249 34 12	55 41 24
01	22	29.00	248 59 24	55 42 00
01	22	30.00	248 20 24	55 43 48
01	22	31.00	247 43 12	55 43 48
01	22	32.00	247 04 48	55 44 24
01	22	33.00	246 28 48	55 45 36
01	22	34.00	245 50 24	55 46 48
01	22	35.00	245 13 12	55 46 48
01	22	36.00	244 37 12	55 46 48
01	22	37.00	244 00 36	55 46 48
01	22	38.00	243 21 00	55 46 48
01	22	39.00	242 45 36	55 45 36
01	22	40.00	242 09 36	55 45 00
01	22	41.00	241 33 36	55 45 00
01	22	42.00	240 55 12	55 43 48
01	22	43.00	240 21 00	55 42 36
01	22	44.00	239 42 00	55 40 12
01	22	45.00	239 06 36	55 36 00
01	22	46.00	238 27 36	55 36 00
01	22	47.00	237 52 48	55 36 00
01	22	48.00	237 19 12	55 33 36
01	22	49.00	236 38 24	55 31 48
01	22	50.00	236 01 48	55 28 48
01	22	51.00	235 28 12	55 25 48
01	22	52.00	234 51 00	55 22 48
01	22	53.00	234 19 48	55 20 24
01	22	54.00	233 45 00	55 16 12
01	22	55.00	233 03 36	55 13 48
01	22	56.00	232 30 36	55 09 36
01	22	57.00	231 53 24	55 06 00
01	22	58.00	231 21 36	55 02 24
01	22	59.00	230 49 12	54 58 12
01	23	00.00	230 15 36	54 54 00
01	23	01.00	229 40 48	54 49 12
01	23	02.00	229 08 24	54 44 24
01	23	03.00	228 38 24	54 40 12
01	23	04.00	228 04 48	54 35 24
01	23	05.00	227 30 36	54 30 36
01	23	06.00	226 56 24	54 25 12
01	23	07.00	226 24 00	54 19 48
01	23	08.00	225 54 00	54 15 00
01	23	09.00	225 12 36	54 09 36
01	23	10.00	224 38 24	54 04 12
01	23	11.00	224 17 24	53 57 36
01	23	12.00	223 49 12	53 51 36
01	23	13.00	223 14 24	53 45 36
01	23	14.00	222 47 24	53 37 48
01	23	15.00	222 20 24	53 32 24
01	23	16.00	221 49 12	53 27 00

HR	MIN	SEC	AZIMUTH	ELEVATION
01	23	17.00	221 18 00	53 20 24
01	23	18.00	220 48 00	53 13 12
01	23	19.00	220 18 00	53 06 36
01	23	20.00	219 47 24	52 59 24
01	23	21.00	219 18 36	52 52 48
01	23	22.00	218 51 36	52 43 48
01	23	23.00	218 28 12	52 38 24
01	23	24.00	217 59 24	52 30 00
01	23	25.00	217 36 00	52 23 24
01	23	26.00	217 01 48	52 16 48
01	23	27.00	216 29 24	52 09 36
01	23	28.00	216 04 12	52 02 24
01	23	29.00	215 39 00	51 55 12
01	23	30.00	215 16 48	51 47 24
01	23	31.00	214 48 00	51 39 36
01	23	32.00	214 24 36	51 31 48
01	23	33.00	213 57 36	51 22 48
01	23	34.00	213 32 24	51 17 24
01	23	35.00	213 06 36	51 07 48
01	23	36.00	212 40 12	51 00 00
01	23	37.00	212 15 36	50 53 24
01	23	38.00	211 55 48	50 43 12
01	23	39.00	211 30 00	50 34 48
01	23	40.00	211 10 48	50 28 12
01	23	41.00	210 46 48	50 19 12
01	23	42.00	210 21 36	50 09 00
01	23	43.00	209 55 12	50 01 12
01	23	44.00	209 31 12	49 53 24
01	23	45.00	209 13 48	49 42 36
01	23	46.00	208 47 24	49 34 48
01	23	47.00	208 29 24	49 27 00
01	23	48.00	208 06 36	49 17 24
01	23	49.00	207 44 24	49 10 12
01	23	50.00	207 23 24	49 00 36
01	23	51.00	206 59 24	48 52 48
01	23	52.00	206 41 24	48 42 36
01	23	53.00	206 18 00	48 34 48
01	23	54.00	205 59 24	48 25 48
01	23	55.00	205 43 48	48 15 36
01	23	56.00	205 24 00	48 08 24
01	23	57.00	205 01 12	47 59 24
01	23	58.00	204 40 48	47 49 48
01	23	59.00	204 19 48	47 40 48
01	24	00.00	203 58 48	47 31 12
01	24	01.00	203 42 36	47 22 12
01	24	02.00	203 25 48	47 12 36
01	24	03.00	203 08 24	47 05 24
01	24	04.00	202 48 00	46 56 24
01	24	05.00	202 29 24	46 46 12
01	24	06.00	202 10 48	46 38 24
01	24	07.00	201 53 24	46 27 36
01	24	08.00	201 36 36	46 30 36
01	24	09.00	201 19 48	46 10 48
01	24	10.00	201 03 00	45 54 36
01	24	11.00	200 46 12	45 52 48

PATRICK AFB THEOD. STA. 1.20

LAT. 28 31 29 N

LONG. 279 26 21 E

HT 0011 M

19 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	20	01.00	305 48 00	30 51 00
01	20	02.00	306 13 12	31 34 12
01	20	03.00	306 12 36	31 30 36
01	20	04.00	306 12 00	30 46 48
01	20	05.00	306 03 24	30 36 36

HR	MIN	SEC	AZIMUTH	ELEVATION
01	20	06.00	305 54 36	29 58 12
01	20	07.00	305 09 00	29 57 36
01	20	08.00	304 24 36	31 25 48
01	20	09.00	304 25 12	32 48 00
01	20	10.00	304 20 24	33 10 48

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

19 MAY 58

HR MIN SEC AZIMUTH ELEVATION

01	20	11.00	304 01 12	33 28 48
01	20	12.00	303 39 00	33 18 36
01	20	13.00	303 22 48	33 03 36
01	20	14.00	302 58 12	34 07 48
01	20	15.00	302 25 48	34 16 12

01	20	16.00	302 10 48	34 28 12
01	20	17.00	302 22 12	34 34 12
01	20	18.00	302 14 24	35 09 36
01	20	19.00	302 10 12	36 37 12
01	20	20.00	302 09 00	36 51 36

01	20	21.00	302 10 48	36 48 36
01	20	22.00	302 12 36	36 25 48
01	20	23.00	301 21 36	36 14 24
01	20	24.00	301 04 48	36 11 24
01	20	25.00	300 55 12	36 15 36

01	20	26.00	300 40 12	36 42 36
01	20	27.00	300 26 24	36 48 00
01	20	28.00	300 09 36	36 48 36
01	20	29.00	299 55 48	37 22 48
01	20	30.00	299 47 24	37 31 48

01	20	31.00	299 33 00	37 40 48
01	20	32.00	299 18 36	37 57 36
01	20	33.00	299 12 36	38 08 24
01	20	34.00	298 57 00	38 03 36
01	20	35.00	298 32 24	38 07 48

01	20	36.00	298 17 24	38 12 36
01	20	37.00	298 01 12	38 41 24
01	20	38.00	297 40 48	39 03 00
01	20	39.00	297 25 48	39 17 24
01	20	40.00	297 12 00	39 29 24

01	20	41.00	296 54 00	39 37 48
01	20	42.00	296 36 00	39 44 24
01	20	43.00	296 21 00	39 50 24
01	20	44.00	296 02 24	40 13 12
01	20	45.00	295 41 24	40 30 00

01	20	46.00	295 27 36	40 45 00
01	20	47.00	295 11 24	40 54 00
01	20	48.00	294 54 36	41 09 00
01	20	49.00	294 37 48	41 23 24
01	20	50.00	294 16 12	41 31 12

01	20	51.00	293 54 00	41 37 48
01	20	52.00	293 36 00	41 47 24
01	20	53.00	293 17 24	42 06 00
01	20	54.00	293 02 24	42 18 00
01	20	55.00	292 43 48	42 30 36

01	20	56.00	292 29 24	42 46 48
01	20	57.00	292 14 24	43 01 48
01	20	58.00	291 56 24	43 13 48
01	20	59.00	291 30 36	43 24 36
01	21	00.00	291 10 48	43 30 36

01	21	01.00	290 48 00	43 37 48
01	21	02.00	290 29 24	43 51 36
01	21	03.00	290 08 24	44 01 48
01	21	04.00	289 48 00	44 12 36
01	21	05.00	289 30 36	44 28 48

01	21	06.00	289 16 12	44 40 48
01	21	07.00	288 56 24	44 51 36
01	21	08.00	288 28 12	45 04 12
01	21	09.00	288 01 12	45 15 00
01	21	10.00	287 39 36	45 27 36

01	21	11.00	287 17 24	45 38 24
01	21	12.00	286 55 48	45 48 36
01	21	13.00	286 39 36	45 59 24
01	21	14.00	286 19 48	46 09 36
01	21	15.00	285 49 12	46 24 00

01	21	16.00	285 24 36	46 34 48
01	21	17.00	285 04 12	46 46 48
01	21	18.00	284 36 00	47 03 36
01	21	19.00	284 12 00	47 10 48
01	21	20.00	283 48 36	47 20 24

HR MIN SEC AZIMUTH ELEVATION

01	21	21.00	283 27 00	47 28 12
01	21	22.00	283 07 48	47 39 36
01	21	23.00	282 35 24	47 49 12
01	21	24.00	282 05 24	48 03 36
01	21	25.00	281 41 24	48 15 00

01	21	26.00	281 15 36	48 28 48
01	21	27.00	280 48 00	48 42 00
01	21	28.00	280 27 36	48 52 48
01	21	29.00	280 04 12	49 00 36
01	21	30.00	279 29 24	49 09 00

01	21	31.00	279 06 00	49 17 24
01	21	32.00	278 39 00	49 28 48
01	21	33.00	278 10 48	49 39 00
01	21	34.00	277 45 00	49 47 24
01	21	35.00	277 14 24	49 55 12

01	21	36.00	276 52 48	50 03 00
01	21	37.00	276 32 24	50 12 36
01	21	38.00	276 10 48	50 21 00
01	21	39.00	275 24 36	50 38 24
01	21	40.00	275 45 00	50 45 36

01	21	41.00	274 12 36	50 54 00
01	21	42.00	273 47 24	51 04 12
01	21	43.00	273 15 00	51 13 48
01	21	44.00	272 48 36	51 22 48
01	21	45.00	272 15 00	51 30 36

01	21	46.00	271 44 24	51 40 12
01	21	47.00	271 12 00	51 47 24
01	21	48.00	270 35 24	51 54 00
01	21	49.00	270 03 36	52 01 12
01	21	50.00	269 37 48	52 10 48

01	21	51.00	269 11 24	52 21 00
01	21	52.00	268 37 48	52 28 12
01	21	53.00	268 09 36	52 35 24
01	21	54.00	267 33 00	52 41 24
01	21	55.00	266 54 36	52 49 12

01	21	56.00	266 19 48	52 55 48
01	21	57.00	265 49 12	53 01 12
01	21	58.00	265 17 24	53 07 12
01	21	59.00	264 44 24	53 17 24
01	22	00.00	264 15 00	53 27 00

01	22	01.00	263 37 12	53 33 00
01	22	02.00	263 03 00	53 35 24
01	22	03.00	262 25 48	53 40 12
01	22	04.00	261 52 12	53 45 00
01	22	05.00	261 16 12	53 51 36

01	22	06.00	260 40 48	53 57 00
01	22	07.00	260 07 12	54 01 48
01	22	08.00	259 34 48	54 06 36
01	22	09.00	258 57 00	54 11 24
01	22	10.00	258 18 00	54 16 12

01	22	11.00	257 49 12	54 22 12
01	22	12.00	257 13 12	54 27 36
01	22	13.00	256 35 24	54 33 36
01	22	14.00	255 58 12	54 39 36
01	22	15.00	255 21 36	54 45 00

01	22	16.00	254 46 48	54 51 36
01	22	17.00	254 10 12	54 45 00
01	22	18.00	253 31 48	54 44 24
01	22	19.00	252 55 12	54 47 24
01	22	20.00	252 18 36	54 50 24

01	22	21.00	251 40 48	54 52 12
01	22	22.00	251 04 48	54 53 24
01	22	23.00	250 29 24	54 57 00
01	22	24.00	249 55 48	55 00 00
01	22	25.00	249 17 24	55 02 24

01	22	26.00	248 36 36	55 04 12
01	22	27.00	247 56 24	55 03 00
01	22	28.00	247 20 24	55 03 00
01	22	29.00	246 42 00	55 04 48
01	22	30.00	246 01 48	55 04 48

PATRICK AFB THEOD. STA. 1+20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

19 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
01	22	31.00	245 22 48	55 04 12
01	22	32.00	244 48 36	55 06 00
01	22	33.00	244 19 12	55 09 00
01	22	34.00	243 43 48	55 09 00
01	22	35.00	243 06 36	55 09 00
01	22	36.00	242 26 24	55 07 12
01	22	37.00	241 46 48	55 07 12
01	22	38.00	241 19 48	55 07 12
01	22	39.00	240 55 12	55 06 36
01	22	40.00	240 12 00	55 06 36
01	22	41.00	239 33 36	55 04 12
01	22	42.00	238 57 00	55 01 12
01	22	43.00	238 18 36	55 00 00
01	22	44.00	237 45 00	54 57 36
01	22	45.00	237 10 48	54 57 00
01	22	46.00	236 36 36	54 55 12
01	22	47.00	236 01 48	54 52 48
01	22	48.00	235 27 00	54 48 00
01	22	49.00	234 50 24	54 45 00
01	22	50.00	234 12 36	54 41 24
01	22	51.00	233 39 00	54 39 36
01	22	52.00	233 04 48	54 36 36
01	22	53.00	232 36 00	54 34 12
01	22	54.00	231 54 36	54 32 24
01	22	55.00	231 25 48	54 27 00
01	22	56.00	230 51 36	54 21 00
01	22	57.00	230 16 12	54 16 48
01	22	58.00	229 45 36	54 12 36
01	22	59.00	229 13 12	54 08 24
01	23	00.00	228 39 00	54 05 24
01	23	01.00	228 09 00	54 03 00
01	23	02.00	227 36 00	53 59 24
01	23	03.00	227 06 00	53 49 48
01	23	04.00	226 32 24	53 43 48
01	23	05.00	225 58 48	53 38 24
01	23	06.00	225 33 00	53 33 36
01	23	07.00	224 55 12	53 28 48
01	23	08.00	224 25 48	53 24 00
01	23	09.00	224 00 36	53 19 12
01	23	10.00	223 30 36	53 15 00
01	23	11.00	223 00 00	53 03 36
01	23	12.00	222 27 00	52 59 24
01	23	13.00	221 58 12	52 50 24
01	23	14.00	221 31 48	52 43 48
01	23	15.00	220 58 12	52 35 24
01	23	16.00	220 25 12	52 31 12
01	23	17.00	219 54 36	52 27 00
01	23	18.00	219 27 36	52 22 48
01	23	19.00	219 06 00	52 15 00
01	23	20.00	218 38 24	52 09 00
01	23	21.00	218 12 00	52 00 00

HR	MIN	SEC	AZIMUTH	ELEVATION
01	23	22.00	217 45 36	51 53 24
01	23	23.00	217 21 36	51 46 12
01	23	24.00	216 54 00	51 38 24
01	23	25.00	216 30 00	51 30 00
01	23	26.00	215 59 24	51 23 24
01	23	27.00	215 33 36	51 16 12
01	23	28.00	215 08 24	51 09 00
01	23	29.00	214 45 00	51 01 12
01	23	30.00	214 17 24	50 54 36
01	23	31.00	213 54 00	50 48 00
01	23	32.00	213 31 12	50 40 12
01	23	33.00	213 03 00	50 33 00
01	23	34.00	212 33 00	50 23 24
01	23	35.00	212 11 24	50 13 48
01	23	36.00	211 51 36	50 06 36
01	23	37.00	211 28 48	49 57 00
01	23	38.00	211 04 12	49 49 48
01	23	39.00	210 42 36	49 43 12
01	23	40.00	210 14 24	49 34 48
01	23	41.00	209 52 48	49 24 36
01	23	42.00	209 32 24	49 15 36
01	23	43.00	209 12 00	49 07 48
01	23	44.00	208 49 48	48 58 12
01	23	45.00	208 27 36	48 50 24
01	23	46.00	208 06 00	48 43 12
01	23	47.00	207 46 12	48 36 00
01	23	48.00	207 27 36	48 27 00
01	23	49.00	207 06 00	48 18 36
01	23	50.00	206 45 36	48 10 12
01	23	51.00	206 33 36	48 01 48
01	23	52.00	206 12 00	47 51 00
01	23	53.00	205 42 00	47 43 48
01	23	54.00	205 25 48	47 38 24
01	23	55.00	205 04 48	47 30 36
01	23	56.00	204 48 00	47 21 00
01	23	57.00	204 28 12	47 09 00
01	23	58.00	204 00 36	47 00 00
01	23	59.00	203 47 24	46 50 24
01	24	00.00	203 31 48	46 42 00
01	24	01.00	203 10 12	46 32 24
01	24	02.00	202 52 48	46 24 00
01	24	03.00	202 38 24	46 15 00
01	24	04.00	202 19 48	46 07 12
01	24	05.00	202 00 36	45 56 24
01	24	06.00	201 45 00	45 47 24
01	24	07.00	201 25 48	45 39 00
01	24	08.00	201 09 36	45 29 24
01	24	09.00	200 51 36	45 18 00
01	24	10.00	200 33 36	45 09 00
01	24	11.00	200 22 12	45 00 36

PATRICK AFB OPT. TR STA. 4+1 LAT. 25 16 03 N LONG. 283 41 12 E HT 0037 M

19 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	40	51.00	207 42 00	36 00 00
02	40	52.00	207 42 00	36 07 12
02	40	53.00	207 42 00	36 07 48
02	40	54.00	207 42 00	36 07 48
02	40	55.00	207 42 00	36 07 48
02	40	56.00	207 42 00	36 01 12
02	40	57.00	207 42 00	36 01 12
02	40	58.00	207 42 00	36 01 12
02	40	59.00	207 37 48	36 01 12
02	41	00.00	207 36 00	36 01 12

HR	MIN	SEC	AZIMUTH	ELEVATION
02	41	01.00	207 36 00	36 01 12
02	41	02.00	207 36 00	36 03 00
02	41	03.00	207 36 00	36 03 00
02	41	04.00	207 36 00	36 03 00
02	41	05.00	207 36 00	36 03 00
02	41	06.00	207 36 00	36 03 00
02	41	07.00	207 34 12	35 59 24
02	41	08.00	207 28 48	35 57 36
02	41	09.00	207 26 24	35 49 12
02	41	10.00	207 16 48	35 48 36

PATRICK AFB OPT.TR STA. 4.1 LAT. 25 16 03 N LONG. 283 41 12 E HT 0037 M

19 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	41	11.00	207 16 48	35 48 36	02	43	04.00	189 13 48	25 16 12
02	41	32.00	201 22 12	34 23 24	02	43	05.00	189 12 00	25 18 36
02	41	33.00	200 55 12	34 01 12	02	43	06.00	189 11 24	25 15 36
02	41	34.00	200 55 12	33 54 00	02	43	07.00	189 04 48	25 01 12
02	41	35.00	200 47 24	33 40 48	02	43	08.00	188 52 48	24 57 36
02	41	36.00	200 25 12	33 31 12	02	43	09.00	188 47 24	24 49 12
02	41	37.00	200 17 24	33 33 36	02	43	10.00	188 47 24	24 42 36
02	41	38.00	199 56 24	33 36 00	02	43	11.00	188 47 24	24 36 00
02	41	39.00	199 54 36	33 31 12	02	43	12.00	188 47 24	24 28 12
02	41	40.00	199 43 12	33 26 24	02	43	13.00	188 47 24	24 11 24
02	41	41.00	199 43 12	33 11 24	02	43	14.00	188 47 24	24 13 48
02	41	42.00	199 31 12	33 03 36	02	43	15.00	188 31 12	24 07 48
02	41	43.00	199 31 12	32 54 36	02	43	16.00	188 27 36	24 00 36
02	41	44.00	199 10 48	32 37 12	02	43	17.00	188 11 24	23 50 24
02	41	45.00	198 49 12	32 33 36	02	43	18.00	188 11 24	23 35 24
02	41	46.00	198 24 36	32 28 12	02	43	19.00	188 04 48	23 22 12
02	41	47.00	198 02 24	32 28 12	02	43	20.00	188 04 12	23 28 12
02	41	48.00	197 44 24	32 33 00	02	43	21.00	187 59 24	23 24 00
02	41	49.00	197 45 00	32 31 48	02	43	22.00	187 55 12	23 26 24
02	41	50.00	197 52 48	32 21 36	02	43	23.00	187 48 00	23 24 00
02	41	51.00	197 51 36	32 10 48	02	43	24.00	187 46 12	23 19 12
02	41	52.00	197 41 24	32 09 00	02	43	25.00	187 46 12	23 05 24
02	41	53.00	197 15 36	32 08 24	02	43	26.00	187 40 12	22 41 24
02	41	54.00	196 46 48	32 00 36	02	43	27.00	187 40 12	22 45 36
02	41	55.00	196 25 48	31 58 12	02	43	28.00	187 40 12	22 34 48
02	41	56.00	196 15 36	31 50 24	02	43	29.00	187 40 12	22 21 36
02	41	57.00	195 40 12	31 35 24	02	43	30.00	187 40 12	22 05 24
02	41	58.00	195 28 12	31 13 12	02	43	31.00	187 35 24	22 12 36
02	41	59.00	195 16 48	30 38 24	02	45	43.00	173 01 12	13 00 36
02	42	00.00	194 52 12	30 22 48	02	45	44.00	173 01 12	13 03 36
02	42	01.00	194 52 12	30 13 48	02	45	45.00	173 01 12	13 04 12
02	42	02.00	194 49 12	30 08 24	02	45	46.00	173 01 12	13 07 12
02	42	03.00	194 37 12	29 46 12	02	45	47.00	173 01 12	13 01 48
02	42	04.00	194 18 00	29 38 24	02	45	48.00	173 01 12	13 01 48
02	42	05.00	193 55 12	29 22 12	02	45	49.00	172 59 24	13 02 24
02	42	06.00	193 48 24	29 04 12	02	45	50.00	172 59 24	13 07 48
02	42	07.00	193 38 24	29 01 12	02	45	51.00	172 59 24	13 03 36
02	42	08.00	193 31 12	28 48 00	02	45	52.00	172 59 24	13 03 00
02	42	09.00	193 21 36	28 43 48	02	45	53.00	172 58 48	12 57 36
02	42	10.00	193 08 24	28 30 36	02	45	54.00	172 57 36	13 03 36
02	42	11.00	193 06 36	28 24 36	02	45	55.00	172 58 12	13 07 48
02	42	12.00	193 05 24	28 15 36	02	45	56.00	173 02 24	13 01 12
02	42	13.00	192 53 24	28 12 36	02	45	57.00	173 01 48	13 03 00
02	42	14.00	192 52 48	28 09 36	02	45	58.00	173 01 48	13 03 00
02	42	15.00	192 52 12	28 09 00	02	45	59.00	173 01 48	13 03 36
02	42	57.00	190 09 36	25 49 48	02	46	00.00	173 01 48	13 03 00
02	42	58.00	190 07 48	25 42 36	02	46	01.00	173 00 36	13 01 48
02	42	59.00	189 43 12	25 42 00	02	46	02.00	173 01 12	12 54 36
02	43	00.00	189 43 12	25 36 00	02	46	03.00	173 01 48	12 56 24
02	43	01.00	189 36 36	25 30 36	02	46	04.00	173 01 48	12 56 24
02	43	02.00	189 22 12	25 30 36	02	46	05.00	172 59 24	12 57 36
02	43	03.00	189 20 24	25 22 48	02	46	06.00	172 57 36	12 54 36

PATRICK AFB OPT.TR STA. 4.1 LAT. 25 16 03 N LONG. 283 41 12 E HT 0037 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	14	55.00	029 16 12	59 01 12	00	15	05.00	036 27 36	60 43 12
00	14	56.00	030 12 36	58 54 36	00	15	06.00	037 16 48	60 51 00
00	14	57.00	030 57 36	59 06 36	00	15	07.00	038 00 00	61 10 12
00	14	58.00	031 49 48	59 16 48	00	15	08.00	038 37 48	61 15 00
00	14	59.00	032 25 12	59 30 36	00	15	09.00	039 34 48	61 40 48
00	15	00.00	033 02 24	59 46 12	00	15	10.00	040 07 12	61 39 36
00	15	01.00	033 46 12	59 55 48	00	15	11.00	041 00 36	61 58 12
00	15	02.00	034 34 48	60 03 00	00	15	12.00	041 47 24	62 03 36
00	15	03.00	035 07 12	60 13 12	00	15	13.00	042 36 00	62 15 36
00	15	04.00	035 43 12	60 25 48	00	15	14.00	043 19 12	62 18 36

PATRICK AFB OPT.TR STA. 4.1

LAT. 25 16 03 N

LONG. 283 41 12 E

HT 0037 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
00	15	15.00	044 12 00	62 27 00
00	15	16.00	044 59 24	62 33 00
00	15	17.00	045 48 36	62 44 24
00	15	18.00	046 48 36	62 51 36
00	15	19.00	047 49 48	63 14 24
00	15	20.00	048 28 12	63 12 36
00	15	21.00	049 20 24	63 24 36
00	15	22.00	050 08 24	63 23 24
00	15	23.00	051 06 00	63 25 48
00	15	24.00	052 03 36	63 36 36
00	15	25.00	052 54 36	63 43 12
00	15	26.00	053 45 36	63 54 36
00	15	27.00	054 29 24	64 03 36
00	15	28.00	055 19 12	64 15 36
00	15	29.00	056 02 24	64 16 48
00	15	30.00	057 07 12	64 17 24
00	15	31.00	058 13 12	64 20 24
00	15	32.00	059 07 12	64 22 12
00	15	33.00	059 56 24	64 36 36
00	15	34.00	060 37 12	64 43 12
00	15	35.00	061 29 24	64 43 48
00	15	36.00	062 42 36	64 49 12
00	15	37.00	063 46 12	64 46 12
00	15	38.00	064 37 48	64 48 36
00	15	39.00	065 13 36	64 43 48
00	15	40.00	065 52 12	64 51 00
00	15	41.00	066 55 12	64 55 48
00	15	42.00	068 29 24	64 53 24
00	15	43.00	069 13 12	65 04 12
00	15	44.00	070 10 12	65 09 36
00	15	45.00	070 50 24	65 07 12
00	15	46.00	071 26 24	65 01 12
00	15	47.00	072 32 24	64 59 24
00	15	48.00	073 35 24	64 59 24
00	15	49.00	074 25 12	65 05 24
00	15	50.00	075 25 48	65 04 48
00	15	51.00	076 19 12	64 57 00
00	15	52.00	077 00 36	65 01 48
00	15	53.00	077 57 36	64 55 48
00	15	54.00	079 09 00	64 52 48
00	15	55.00	079 49 12	64 44 24
00	15	56.00	080 28 48	64 50 24
00	15	57.00	081 07 12	65 05 24
00	15	58.00	081 43 48	64 45 36
00	15	59.00	082 33 36	64 36 00
00	16	00.00	083 26 24	64 38 24
00	16	01.00	084 12 00	64 26 24
00	16	02.00	085 17 24	64 30 36
00	16	03.00	086 16 12	64 27 36
00	16	04.00	086 48 00	64 24 00
00	16	05.00	087 41 24	64 10 12
00	16	06.00	088 37 48	64 08 24
00	16	07.00	089 34 12	64 05 24
00	16	08.00	089 51 36	63 52 12
00	16	09.00	090 51 00	63 46 48
00	16	10.00	091 32 24	63 40 48
00	16	11.00	092 34 12	63 37 12
00	16	12.00	093 07 48	63 26 24
00	16	13.00	093 55 12	63 23 24
00	16	14.00	094 38 24	63 13 48
00	16	15.00	095 12 00	63 05 24
00	16	16.00	096 04 12	62 55 12
00	16	17.00	096 33 36	62 51 36
00	16	18.00	097 20 24	62 41 24
00	16	19.00	097 57 36	62 22 12
00	16	20.00	098 39 00	62 18 00
00	16	21.00	099 07 12	62 10 48
00	16	22.00	099 49 12	62 05 24
00	16	23.00	100 22 12	61 43 12
00	16	24.00	100 52 48	61 41 24

HR	MIN	SEC	AZIMUTH	ELEVATION
00	16	25.00	101 14 24	61 33 36
00	16	26.00	102 12 00	61 20 24
00	16	27.00	102 49 48	61 24 36
00	16	28.00	103 10 12	61 14 24
00	16	29.00	103 54 36	61 01 48
00	16	30.00	104 27 36	60 57 36
00	16	31.00	104 54 36	60 33 36
00	16	32.00	105 28 12	60 24 36
00	16	33.00	106 03 36	60 00 00
00	16	34.00	106 28 12	60 03 00
00	16	35.00	106 50 24	59 59 24
00	16	36.00	107 10 48	59 42 00
00	16	37.00	107 46 12	59 36 36
00	16	38.00	108 38 24	59 15 00
00	16	39.00	109 09 00	59 02 24
00	16	40.00	109 18 36	58 49 48
00	16	41.00	110 00 36	58 42 00
00	16	42.00	110 11 24	58 34 48
00	16	43.00	110 43 12	58 25 12
00	16	44.00	111 09 36	58 00 00
00	16	45.00	111 33 36	56 04 12
00	16	46.00	112 01 12	57 42 00
00	16	47.00	112 19 12	57 30 36
00	16	48.00	112 51 36	57 19 48
00	16	49.00	113 33 36	57 06 36
00	16	50.00	114 10 48	56 49 12
00	16	51.00	113 49 12	56 41 24
00	16	52.00	114 14 24	56 34 12
00	16	53.00	114 42 36	56 19 48
00	16	54.00	115 06 36	56 10 12
00	16	55.00	115 30 36	56 00 00
00	16	56.00	115 45 36	55 54 36
00	16	57.00	116 16 48	55 35 24
00	16	58.00	116 37 12	55 15 00
00	16	59.00	117 06 36	55 08 24
00	17	00.00	117 10 48	54 55 12
00	17	01.00	117 41 24	54 35 24
00	17	02.00	118 08 24	54 33 00
00	17	03.00	118 17 24	54 23 24
00	17	04.00	118 38 24	54 07 12
00	17	05.00	118 39 00	54 07 48
00	17	06.00	119 00 00	53 41 24
00	17	07.00	119 19 12	53 37 48
00	17	08.00	119 40 12	53 28 12
00	17	09.00	119 55 48	53 12 36
00	17	10.00	120 10 48	53 03 00
00	17	11.00	120 36 36	52 58 12
00	17	12.00	121 07 48	52 41 24
00	17	13.00	121 11 24	51 52 12
00	17	14.00	121 23 24	51 32 24
00	17	15.00	121 57 36	50 52 48
00	17	16.00	122 14 24	50 23 24
00	17	17.00	122 36 00	50 07 12
00	17	18.00	123 04 48	50 04 12
00	17	19.00	123 01 48	49 57 36
00	17	20.00	123 27 36	49 26 24
00	17	21.00	123 43 12	48 46 12
00	17	22.00	123 56 24	48 14 24
00	17	23.00	124 42 36	47 51 36
00	17	24.00	125 14 24	47 42 36
00	17	25.00	125 17 24	47 30 00
00	17	26.00	125 30 00	47 12 36
00	17	27.00	126 00 00	45 51 00
00	17	28.00	126 42 36	44 26 24
00	17	29.00	126 37 12	42 56 24
00	17	30.00	127 04 48	40 33 00
00	17	31.00	126 57 00	39 06 00
00	17	32.00	126 51 00	38 24 36
00	17	33.00	126 46 12	36 16 12
00	17	34.00	126 09 00	46 31 48

PATRICK AFB OPT-TR STA. 4.1 LAT. 25 16 03 N LONG. 283 41 12 E HT 0037 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	17	39.00	127 04 12	45 37 12	00	18	47.00	135 52 48	36 01 48
00	17	40.00	127 22 12	45 13 48	00	18	48.00	136 01 12	36 03 00
00	17	41.00	127 37 48	45 40 12	00	18	49.00	136 09 00	35 57 00
00	17	42.00	127 48 00	45 32 24	00	18	50.00	136 10 48	35 49 12
00	17	43.00	128 03 36	44 45 36	00	18	51.00	136 21 00	35 45 36
00	17	44.00	128 42 00	43 44 24	00	18	52.00	136 22 12	35 32 24
00	17	45.00	129 40 12	43 10 48	00	18	53.00	136 36 36	35 24 00
00	17	46.00	131 07 48	42 58 12	00	18	54.00	136 33 00	35 10 48
00	17	47.00	132 04 48	41 48 36	00	18	55.00	136 36 00	34 58 12
00	17	48.00	131 51 00	41 53 24	00	18	56.00	136 37 12	34 34 12
00	17	49.00	129 13 48	41 47 24	00	18	57.00	136 48 00	34 34 12
00	17	50.00	129 14 24	45 25 48	00	18	58.00	136 47 24	34 24 36
00	17	51.00	129 38 24	44 24 36	00	18	59.00	137 01 12	34 24 00
00	17	52.00	129 36 00	44 06 36	00	19	00.00	137 02 24	34 18 00
00	17	53.00	129 38 24	44 12 36	00	19	01.00	137 01 48	34 10 12
00	17	54.00	129 45 36	44 12 36	00	19	02.00	137 13 12	34 07 48
00	17	55.00	130 00 00	44 12 00	00	19	03.00	137 13 12	33 54 36
00	17	56.00	129 58 48	44 05 24	00	19	04.00	137 34 48	33 15 00
00	17	57.00	130 14 24	43 55 48	00	19	05.00	137 34 48	33 02 24
00	17	58.00	130 22 48	43 55 12	00	19	06.00	137 54 00	32 22 12
00	17	59.00	130 22 48	43 38 24	00	19	07.00	138 00 36	32 06 00
00	18	00.00	130 36 36	43 29 24	00	19	08.00	138 03 36	31 52 12
00	18	01.00	130 42 36	43 15 36	00	19	09.00	138 12 00	31 41 24
00	18	02.00	130 43 48	43 14 24	00	19	10.00	138 19 12	31 06 36
00	18	03.00	130 59 24	42 58 48	00	19	11.00	138 36 36	31 03 36
00	18	04.00	131 09 00	42 52 12	00	19	12.00	138 37 48	30 50 24
00	18	05.00	131 21 36	42 42 36	00	19	13.00	138 52 12	30 18 36
00	18	06.00	131 27 36	42 31 12	00	19	14.00	139 11 24	30 15 00
00	18	07.00	131 36 00	42 30 36	00	19	15.00	139 42 00	30 01 12
00	18	08.00	131 36 00	42 21 00	00	19	16.00	139 51 00	29 52 12
00	18	09.00	131 40 12	42 04 12	00	19	17.00	140 26 24	29 29 24
00	18	10.00	131 52 12	41 52 48	00	19	18.00	140 36 00	29 22 12
00	18	11.00	131 59 24	41 45 00	00	19	19.00	141 02 24	29 02 24
00	18	12.00	132 15 36	41 25 48	00	19	20.00	140 49 12	28 54 00
00	18	13.00	132 17 24	41 28 12	00	19	21.00	140 50 24	28 40 12
00	18	14.00	132 26 24	41 18 00	00	19	22.00	140 57 36	28 34 12
00	18	15.00	132 29 24	40 56 24	00	19	23.00	140 58 12	28 24 36
00	18	16.00	132 42 00	40 56 24	00	19	24.00	141 05 24	28 13 12
00	18	17.00	132 42 00	40 43 12	00	19	25.00	141 22 12	27 49 12
00	18	18.00	132 59 24	40 33 00	00	19	26.00	141 26 24	27 16 48
00	18	19.00	133 00 36	40 23 24	00	19	27.00	141 25 12	26 44 24
00	18	20.00	133 09 00	40 16 12	00	19	28.00	141 39 00	26 42 36
00	18	21.00	133 14 24	40 01 12	00	19	29.00	141 40 12	26 37 12
00	18	22.00	133 24 00	39 54 36	00	19	30.00	141 46 48	26 36 00
00	18	23.00	133 37 48	39 41 24	00	19	31.00	141 54 00	26 36 00
00	18	24.00	133 37 48	39 36 36	00	19	32.00	141 54 00	26 36 00
00	18	25.00	133 43 48	39 27 36	00	19	33.00	141 54 36	26 36 36
00	18	26.00	133 51 36	39 20 24	00	19	34.00	141 55 48	26 36 36
00	18	27.00	133 56 24	39 11 24	00	19	35.00	142 02 24	26 31 12
00	18	28.00	134 08 24	39 00 00	00	19	36.00	141 54 36	26 33 36
00	18	29.00	134 09 00	38 48 00	00	19	37.00	141 55 48	26 34 12
00	18	30.00	134 11 24	38 43 12	00	19	38.00	141 56 24	26 34 12
00	18	31.00	134 13 12	38 33 00	00	19	39.00	141 56 24	26 34 12
00	18	32.00	134 29 24	38 12 36	00	19	40.00	141 57 00	26 34 12
00	18	33.00	134 37 12	38 08 24	00	19	41.00	141 57 00	26 34 12
00	18	34.00	134 38 24	37 58 48	00	19	42.00	141 56 24	26 34 12
00	18	35.00	134 50 24	37 54 00	00	19	43.00	141 56 24	26 34 12
00	18	36.00	134 50 24	37 40 12	00	19	44.00	141 56 24	26 33 00
00	18	37.00	134 57 36	37 30 36	00	19	45.00	141 57 36	26 33 00
00	18	38.00	135 01 12	37 25 12	00	19	46.00	141 58 48	26 33 00
00	18	39.00	135 19 12	37 18 00	00	19	47.00	141 58 48	26 33 00
00	18	40.00	135 15 00	37 12 00	00	19	48.00	141 58 48	26 33 00
00	18	41.00	135 22 48	36 58 12	00	19	49.00	141 58 48	26 24 36
00	18	42.00	135 29 24	36 54 00	00	19	50.00	142 00 36	26 19 12
00	18	43.00	135 32 24	36 39 36	00	19	51.00	142 02 24	26 19 12
00	18	44.00	135 43 48	36 27 36	00	19	52.00	142 13 12	26 19 12
00	18	45.00	135 44 24	36 21 36	00	19	53.00	142 04 12	26 16 48
00	18	46.00	135 50 24	36 18 00	00	19	54.00	142 17 24	26 16 48

PATRICK AFB THE00. ST4. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	14	43.00	074 33 00	51 44 24	00	15	47.00	118 46 12	35 53 24
00	14	44.00	075 48 36	51 45 36	00	15	48.00	119 07 12	35 39 00
00	14	45.00	077 14 24	51 33 36	00	15	49.00	119 26 24	35 22 12
00	14	46.00	078 04 12	51 25 12	00	15	50.00	119 47 24	35 07 12
00	14	47.00	079 02 24	51 19 12	00	15	51.00	120 05 24	34 51 00
00	14	48.00	080 12 00	51 10 12	00	15	52.00	120 25 48	34 36 00
00	14	49.00	081 10 12	51 00 36	00	15	53.00	120 45 36	34 20 24
00	14	50.00	082 12 00	50 49 48	00	15	54.00	121 01 48	34 05 24
00	14	51.00	083 18 36	50 41 24	00	15	55.00	121 22 12	33 49 48
00	14	52.00	084 17 24	50 31 12	00	15	56.00	121 42 00	33 34 12
00	14	53.00	085 17 24	50 20 24	00	15	57.00	121 58 12	33 18 36
00	14	54.00	086 14 24	50 08 24	00	15	58.00	122 14 24	33 04 48
00	14	55.00	087 12 00	49 55 12	00	15	59.00	122 31 12	32 48 36
00	14	56.00	088 12 36	49 43 48	00	16	00.00	122 49 12	32 32 24
00	14	57.00	089 08 24	49 31 48	00	16	01.00	123 05 24	32 18 36
00	14	58.00	090 00 00	49 16 48	00	16	02.00	123 19 12	32 05 24
00	14	59.00	090 52 12	49 04 12	00	16	03.00	123 36 36	31 50 24
00	15	00.00	091 43 12	48 49 48	00	16	04.00	123 54 00	31 35 24
00	15	01.00	092 41 24	48 36 36	00	16	05.00	124 08 24	31 21 36
00	15	02.00	093 33 36	48 22 48	00	16	06.00	124 20 24	31 06 36
00	15	03.00	094 21 00	48 06 36	00	16	07.00	124 39 00	30 54 00
00	15	04.00	095 09 36	47 51 00	00	16	08.00	124 54 36	30 40 12
00	15	05.00	096 01 12	47 35 24	00	16	09.00	125 07 12	30 25 48
00	15	06.00	096 49 48	47 22 48	00	16	10.00	125 21 36	30 11 24
00	15	07.00	097 34 12	47 06 36	00	16	11.00	125 36 00	29 57 36
00	15	08.00	098 21 00	46 49 12	00	16	12.00	125 50 24	29 43 48
00	15	09.00	099 03 00	46 33 00	00	16	13.00	126 04 12	29 31 12
00	15	10.00	099 48 48	46 17 24	00	16	14.00	126 15 00	29 17 24
00	15	11.00	100 30 00	46 00 36	00	16	15.00	126 28 48	29 03 36
00	15	12.00	101 12 36	45 43 48	00	16	16.00	126 40 48	28 49 48
00	15	13.00	101 55 48	45 27 36	00	16	17.00	126 57 36	28 37 12
00	15	14.00	102 33 36	45 10 48	00	16	18.00	127 09 00	28 24 00
00	15	15.00	103 14 24	44 54 36	00	16	19.00	127 21 00	28 10 48
00	15	16.00	103 53 24	44 38 24	00	16	20.00	127 33 00	27 57 36
00	15	17.00	104 34 12	44 21 00	00	16	21.00	127 43 12	27 46 12
00	15	18.00	105 13 12	44 04 48	00	16	22.00	127 57 00	27 33 00
00	15	19.00	105 47 24	43 46 48	00	16	23.00	128 09 00	27 19 12
00	15	20.00	106 18 36	43 28 00	00	16	24.00	128 18 00	27 08 24
00	15	21.00	107 01 48	43 12 00	00	16	25.00	128 31 12	26 55 12
00	15	22.00	107 33 00	42 54 00	00	16	26.00	128 41 24	26 42 36
00	15	23.00	108 05 24	42 37 48	00	16	27.00	128 54 00	26 30 36
00	15	24.00	108 39 36	42 20 24	00	16	28.00	129 06 00	26 17 24
00	15	25.00	109 15 00	42 02 24	00	16	29.00	129 15 00	26 05 24
00	15	26.00	109 45 00	41 46 12	00	16	30.00	129 25 12	25 53 24
00	15	27.00	110 15 36	41 28 48	00	16	31.00	129 35 24	25 41 24
00	15	28.00	110 46 12	41 12 36	00	16	32.00	129 45 36	25 29 24
00	15	29.00	111 19 48	40 55 48	00	16	33.00	129 58 12	25 18 36
00	15	30.00	111 45 36	40 39 36	00	16	34.00	130 07 48	25 07 12
00	15	31.00	112 14 24	40 20 24	00	16	35.00	130 17 24	24 54 00
00	15	32.00	112 41 24	40 03 00	00	16	36.00	130 27 00	24 43 12
00	15	33.00	113 09 36	39 45 00	00	16	37.00	130 36 00	24 31 48
00	15	34.00	113 36 36	39 28 48	00	16	38.00	130 44 24	24 20 24
00	15	35.00	114 02 24	39 11 24	00	16	39.00	131 06 36	24 09 00
00	15	36.00	114 30 36	38 54 00	00	16	40.00	131 30 36	23 57 36
00	15	37.00	114 53 24	38 38 24	00	16	41.00	131 08 24	23 45 00
00	15	38.00	115 20 24	38 21 00	00	16	42.00	131 20 24	23 31 48
00	15	39.00	115 45 36	38 04 48	00	16	43.00	131 43 48	23 23 24
00	15	40.00	116 06 00	37 47 24	00	16	44.00	131 39 00	23 14 24
00	15	41.00	116 31 48	37 31 48	00	16	45.00	131 50 24	23 03 00
00	15	42.00	116 52 12	37 15 36	00	16	46.00	132 15 00	22 52 12
00	15	43.00	117 19 12	37 00 00	00	16	47.00	132 24 00	22 40 48
00	15	44.00	117 40 12	36 42 36	00	16	48.00	132 13 12	22 31 12
00	15	45.00	118 01 48	36 27 00	00	16	49.00	132 26 24	22 19 12
00	15	46.00	118 24 00	36 10 48					

PATRICK AFB THEGO. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	14	43.00	074 34 12	51 55 12	00	15	53.00	105 13 48	44 09 00
00	14	44.00	075 08 24	51 52 48	00	15	54.00	105 30 36	44 01 48
00	14	45.00	075 42 00	51 48 36	00	15	55.00	105 49 48	43 51 36
00	14	46.00	076 17 24	51 45 36	00	15	56.00	106 09 00	43 40 48
00	14	47.00	076 48 36	51 41 24	00	15	57.00	106 24 36	43 33 00
00	14	48.00	077 22 48	51 37 48	00	15	58.00	106 46 12	43 28 12
00	14	49.00	077 55 12	51 34 12	00	15	59.00	107 00 36	43 18 00
00	14	50.00	078 27 00	51 30 36	00	16	00.00	107 20 24	43 09 00
00	14	51.00	079 01 12	51 25 48	00	16	01.00	107 36 36	43 00 36
00	14	52.00	079 33 00	51 22 48	00	16	02.00	107 54 36	42 51 00
00	14	53.00	080 04 12	51 18 00	00	16	03.00	108 10 12	42 43 12
00	14	54.00	080 34 12	51 13 48	00	16	04.00	108 28 12	42 34 12
00	14	55.00	081 07 48	51 08 24	00	16	05.00	108 45 00	42 26 24
00	14	56.00	081 40 48	51 04 48	00	16	06.00	109 01 12	42 18 00
00	14	57.00	082 12 36	51 00 36	00	16	07.00	109 18 00	42 08 24
00	14	58.00	082 43 12	50 54 00	00	16	08.00	109 33 00	41 59 24
00	14	59.00	083 15 36	50 48 36	00	16	09.00	109 48 00	41 51 36
00	15	00.00	083 44 24	50 44 24	00	16	10.00	110 03 36	41 41 24
00	15	01.00	084 15 36	50 39 36	00	16	11.00	110 18 00	41 33 36
00	15	02.00	084 45 36	50 33 36	00	16	12.00	110 32 24	41 23 24
00	15	03.00	085 16 48	50 28 12	00	16	13.00	110 51 00	41 17 24
00	15	04.00	085 45 36	50 22 12	00	16	14.00	111 04 12	41 07 48
00	15	05.00	086 10 48	50 15 36	00	16	15.00	111 18 36	40 57 36
00	15	06.00	086 42 36	50 09 36	00	16	16.00	111 33 00	40 49 12
00	15	07.00	087 13 12	50 03 36	00	16	17.00	111 48 00	40 41 24
00	15	08.00	087 41 24	49 58 12	00	16	18.00	112 04 12	40 33 36
00	15	09.00	088 07 12	49 51 36	00	16	19.00	112 19 48	40 25 12
00	15	10.00	088 36 00	49 45 36	00	16	20.00	112 34 12	40 18 00
00	15	11.00	089 02 24	49 40 48	00	16	21.00	112 46 12	40 09 00
00	15	12.00	089 32 24	49 33 36	00	16	22.00	113 00 36	39 59 24
00	15	13.00	090 56 24	49 26 24	00	16	23.00	113 14 24	39 49 12
00	15	14.00	090 29 24	49 19 12	00	16	24.00	113 27 36	39 40 12
00	15	15.00	090 56 24	49 12 36	00	16	25.00	113 42 00	39 31 48
00	15	16.00	091 20 24	49 04 12	00	16	26.00	113 54 36	39 25 12
00	15	17.00	091 46 48	48 58 12	00	16	27.00	114 09 00	39 17 24
00	15	18.00	092 13 12	48 50 24	00	16	28.00	114 22 12	39 09 36
00	15	19.00	092 42 36	48 44 24	00	16	29.00	114 36 36	38 59 24
00	15	20.00	093 09 36	48 37 12	00	16	30.00	114 48 00	38 52 12
00	15	21.00	093 34 12	48 28 12	00	16	31.00	115 00 00	38 44 24
00	15	22.00	093 57 36	48 21 00	00	16	32.00	115 12 36	38 36 36
00	15	23.00	094 25 12	48 14 24	00	16	33.00	115 25 48	38 27 36
00	15	24.00	094 48 00	48 07 48	00	16	34.00	115 39 00	38 17 24
00	15	25.00	095 12 00	47 58 48	00	16	35.00	115 49 48	38 10 12
00	15	26.00	095 36 00	47 50 24	00	16	36.00	116 01 48	38 01 48
00	15	27.00	096 00 36	47 42 36	00	16	37.00	116 14 24	37 52 48
00	15	28.00	096 25 48	47 36 00	00	16	38.00	116 25 12	37 44 24
00	15	29.00	096 51 00	47 28 48	00	16	39.00	116 38 24	37 35 24
00	15	30.00	097 13 48	47 21 00	00	16	40.00	116 51 00	37 26 24
00	15	31.00	097 36 00	47 12 36	00	16	41.00	117 00 00	37 17 24
00	15	32.00	097 58 12	47 04 48	00	16	42.00	117 13 12	37 11 24
00	15	33.00	098 22 12	46 57 36	00	16	43.00	117 23 24	37 03 36
00	15	34.00	098 43 12	46 49 12	00	16	44.00	117 33 36	36 56 24
00	15	35.00	099 07 12	46 40 48	00	16	45.00	117 46 12	36 47 24
00	15	36.00	099 30 36	46 33 36	00	16	46.00	117 55 48	36 40 12
00	15	37.00	099 49 48	46 24 00	00	16	47.00	118 06 36	36 31 12
00	15	38.00	100 13 48	46 16 48	00	16	48.00	118 21 00	36 21 00
00	15	39.00	100 33 36	46 07 48	00	16	49.00	118 30 00	36 13 48
00	15	40.00	100 57 00	45 58 48	00	16	50.00	118 39 36	36 04 48
00	15	41.00	101 18 36	45 52 12	00	16	51.00	118 52 48	35 58 12
00	15	42.00	101 37 48	45 42 36	00	16	52.00	119 00 36	35 51 00
00	15	43.00	101 58 12	45 34 48	00	16	53.00	119 10 12	35 42 00
00	15	44.00	102 19 48	45 28 48	00	16	54.00	119 22 48	35 33 36
00	15	45.00	102 40 12	45 17 24	00	16	55.00	119 31 12	35 26 24
00	15	46.00	103 01 48	45 09 00	00	16	56.00	119 40 12	35 19 12
00	15	47.00	103 20 24	45 00 00	00	16	57.00	119 51 36	35 10 12
00	15	48.00	103 40 12	44 52 12	00	16	58.00	120 01 48	34 03 00
00	15	49.00	104 00 00	44 43 12	00	16	59.00	120 12 36	34 55 48
00	15	50.00	104 18 36	44 36 00	00	17	00.00	120 21 00	34 47 24
00	15	51.00	104 40 12	44 27 36	00	17	01.00	120 30 36	34 39 36
00	15	52.00	104 55 12	44 17 24	00	17	02.00	120 39 00	34 31 12

PATRICK AFB THECO. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
00	17	03.00	120 49 12	34 21 36	00	18	01.00	128 01 48	27 36 00
00	17	04.00	121 00 00	34 16 12	00	18	02.00	128 06 36	27 29 24
00	17	05.00	121 09 00	34 08 24	00	18	03.00	128 12 36	27 22 12
00	17	06.00	121 17 24	34 01 12	00	18	04.00	128 18 00	27 16 12
00	17	07.00	121 26 24	33 54 36	00	18	05.00	128 24 00	27 10 12
00	17	08.00	121 35 24	33 45 00	00	18	06.00	128 29 24	27 03 00
00	17	09.00	121 43 48	33 37 48	00	18	07.00	128 36 36	26 58 12
00	17	10.00	121 54 00	33 30 36	00	18	08.00	128 42 00	26 51 00
00	17	11.00	122 02 24	33 21 36	00	18	09.00	128 48 00	26 45 00
00	17	12.00	122 12 00	33 15 36	00	18	10.00	128 52 48	26 38 24
00	17	13.00	122 20 24	33 07 12	00	18	11.00	128 57 36	26 34 12
00	17	14.00	122 29 24	33 00 36	00	18	12.00	129 02 24	26 28 48
00	17	15.00	122 37 48	32 52 48	00	18	13.00	129 09 00	26 21 00
00	17	16.00	122 45 36	32 45 00	00	18	14.00	129 15 00	26 07 12
00	17	17.00	122 53 24	32 37 48	00	18	15.00	129 19 48	26 08 24
00	17	18.00	123 01 48	32 30 36	00	18	16.00	129 25 12	26 00 00
00	17	19.00	123 10 12	32 23 24	00	18	17.00	129 31 48	25 55 12
00	17	20.00	123 17 24	32 15 36	00	18	18.00	129 37 12	25 49 12
00	17	21.00	123 27 36	32 08 24	00	18	19.00	129 41 24	25 45 00
00	17	22.00	123 34 48	32 01 48	00	18	20.00	129 46 48	25 39 00
00	17	23.00	123 43 12	31 54 00	00	18	21.00	129 51 00	25 32 24
00	17	24.00	123 48 36	31 46 48	00	18	22.00	129 55 48	25 26 24
00	17	25.00	123 57 00	31 38 24	00	18	23.00	130 00 36	25 21 36
00	17	26.00	124 06 36	31 32 24	00	18	24.00	130 03 36	25 15 00
00	17	27.00	124 13 48	31 25 12	00	18	25.00	130 06 36	25 09 00
00	17	28.00	124 19 48	31 18 00	00	18	26.00	130 11 24	25 01 46
00	17	29.00	124 28 12	31 10 48	00	18	27.00	130 20 24	24 55 48
00	17	30.00	124 36 00	31 03 00	00	18	28.00	130 26 24	24 52 12
00	17	31.00	124 43 12	30 56 24	00	18	29.00	130 31 48	24 45 36
00	17	32.00	124 49 48	30 50 24	00	18	30.00	130 36 36	24 39 36
00	17	33.00	124 59 24	30 43 48	00	18	31.00	130 40 48	24 34 12
00	17	34.00	125 06 36	30 37 12	00	18	32.00	130 47 24	24 28 12
00	17	35.00	125 12 36	30 29 24	00	18	33.00	130 54 00	24 25 12
00	17	36.00	125 18 36	30 22 48	00	18	34.00	131 00 00	24 22 48
00	17	37.00	125 27 00	30 15 36	00	18	35.00	131 04 48	24 12 36
00	17	38.00	125 34 12	30 07 12	00	18	36.00	131 07 12	24 04 48
00	17	39.00	125 40 48	30 00 00	00	18	37.00	131 10 12	24 00 00
00	17	40.00	125 47 24	29 54 00	00	18	38.00	131 13 12	23 53 24
00	17	41.00	125 54 36	29 48 00	00	18	39.00	131 18 00	23 47 24
00	17	42.00	126 01 48	29 40 48	00	18	40.00	131 24 00	23 43 48
00	17	43.00	126 09 36	29 33 00	00	18	41.00	131 30 00	23 38 24
00	17	44.00	126 14 24	29 27 00	00	18	42.00	131 33 36	23 32 24
00	17	45.00	126 20 24	29 19 48	00	18	43.00	131 37 12	23 27 36
00	17	46.00	126 28 12	29 11 24	00	18	44.00	131 40 12	23 21 36
00	17	47.00	126 34 48	29 04 12	00	18	45.00	131 43 48	23 15 00
00	17	48.00	126 42 36	29 00 00	00	18	46.00	131 48 00	23 10 12
00	17	49.00	126 48 36	28 54 36	00	18	47.00	131 54 36	23 06 00
00	17	50.00	126 54 00	28 46 48	00	18	48.00	131 57 00	23 01 12
00	17	51.00	127 01 12	28 40 12	00	18	49.00	131 59 24	22 55 12
00	17	52.00	127 08 24	28 34 12	00	18	50.00	132 04 48	22 48 36
00	17	53.00	127 14 24	28 26 24	00	18	51.00	132 09 36	22 43 48
00	17	54.00	127 18 00	28 22 48	00	18	52.00	132 14 24	22 38 24
00	17	55.00	127 25 12	28 15 36	00	18	53.00	132 18 00	22 32 24
00	17	56.00	127 32 24	28 07 12	00	18	54.00	132 23 24	22 28 12
00	17	57.00	127 38 24	28 00 00	00	18	55.00	132 27 00	22 24 00
00	17	58.00	127 45 36	27 52 48	00	18	56.00	132 32 24	22 18 36
00	17	59.00	127 51 36	27 48 36	00	18	57.00	132 39 00	22 10 48
00	18	00.00	127 55 48	27 42 00					

PATRICK AFB THECO. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	02	04.00	261 07 48	19 45 36	02	02	08.00	258 31 48	18 52 48
02	02	05.00	260 19 12	19 48 00	02	02	09.00	257 54 36	18 45 36
02	02	06.00	259 16 12	19 48 36	02	02	10.00	257 10 48	18 42 36
02	02	07.00	258 53 24	19 38 24	02	02	11.00	256 24 00	18 52 48

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	02	12.00	256 00 36	18 59 24	02	03	22.00	243 09 36	19 47 24
02	02	13.00	255 58 12	19 05 24	02	03	23.00	243 00 00	19 47 24
02	02	14.00	255 51 00	19 05 24	02	03	24.00	242 51 00	19 47 24
02	02	15.00	255 36 00	19 06 00	02	03	25.00	242 39 00	19 46 48
02	02	16.00	255 40 12	19 06 00	02	03	26.00	242 26 24	19 46 48
02	02	17.00	255 43 48	19 05 24	02	03	27.00	242 16 12	19 46 48
02	02	18.00	255 28 48	18 57 00	02	03	28.00	242 04 12	19 46 48
02	02	19.00	255 06 36	19 10 12	02	03	29.00	241 54 36	19 46 48
02	02	20.00	254 46 12	19 10 48	02	03	30.00	241 40 12	19 46 12
02	02	21.00	254 17 24	19 10 48	02	03	31.00	241 30 00	19 44 24
02	02	22.00	254 10 12	19 10 48	02	03	32.00	241 21 36	19 43 48
02	02	23.00	253 58 48	19 10 48	02	03	33.00	241 10 48	19 43 12
02	02	24.00	253 49 12	19 10 48	02	03	34.00	240 58 48	19 43 12
02	02	25.00	253 49 48	19 18 00	02	03	35.00	240 46 48	19 42 36
02	02	26.00	253 49 48	19 17 24	02	03	36.00	240 34 48	19 41 24
02	02	27.00	253 45 00	19 17 24	02	03	37.00	240 25 12	19 39 36
02	02	28.00	253 30 36	19 21 36	02	03	38.00	240 17 24	19 33 36
02	02	29.00	253 25 12	19 22 12	02	03	39.00	240 06 00	19 36 36
02	02	30.00	253 20 24	19 22 12	02	03	40.00	239 54 36	19 36 36
02	02	31.00	253 03 36	19 22 12	02	03	41.00	239 43 48	19 36 36
02	02	32.00	252 49 12	19 22 12	02	03	42.00	239 36 00	19 36 36
02	02	33.00	252 33 36	19 22 48	02	03	43.00	239 21 36	19 36 00
02	02	34.00	252 25 48	19 23 24	02	03	44.00	239 11 24	19 35 24
02	02	35.00	252 18 00	19 24 00	02	03	45.00	239 02 24	19 34 12
02	02	36.00	252 03 00	19 24 00	02	03	46.00	238 48 36	19 34 12
02	02	37.00	251 49 12	19 24 00	02	03	47.00	238 38 24	19 33 36
02	02	38.00	251 40 40	19 24 00	02	03	48.00	238 28 48	19 33 00
02	02	39.00	251 24 36	19 24 00	02	03	49.00	238 12 36	19 33 00
02	02	40.00	251 15 36	19 24 00	02	03	50.00	238 04 48	19 32 24
02	02	41.00	251 00 00	19 24 00	02	03	51.00	237 54 36	19 32 24
02	02	42.00	250 48 36	19 25 12	02	03	52.00	237 42 36	19 33 00
02	02	43.00	250 43 12	19 25 48	02	03	53.00	237 33 36	19 33 00
02	02	44.00	250 36 00	19 25 48	02	03	54.00	237 19 48	19 33 00
02	02	45.00	250 21 36	19 27 36	02	03	55.00	237 07 48	19 32 24
02	02	46.00	250 10 12	19 31 12	02	03	56.00	237 01 12	19 32 24
02	02	47.00	249 54 36	19 31 12	02	03	57.00	236 51 36	19 32 24
02	02	48.00	249 42 36	19 32 24	02	03	58.00	236 40 12	19 32 24
02	02	49.00	249 34 48	19 34 12	02	03	59.00	236 30 36	19 32 24
02	02	50.00	249 21 36	19 36 00	02	04	00.00	236 21 00	19 32 24
02	02	51.00	249 05 24	19 36 36	02	04	01.00	236 08 24	19 31 48
02	02	52.00	248 52 12	19 39 00	02	04	02.00	236 01 12	19 31 48
02	02	53.00	248 40 48	19 40 48	02	04	03.00	235 53 24	19 31 12
02	02	54.00	248 30 00	19 43 12	02	04	04.00	235 40 48	19 30 36
02	02	55.00	248 18 00	19 44 24	02	04	05.00	235 31 48	19 30 00
02	02	56.00	248 09 00	19 46 48	02	04	06.00	235 19 48	19 30 00
02	02	57.00	247 55 48	19 48 36	02	04	07.00	235 08 24	19 29 24
02	02	58.00	247 43 12	19 49 48	02	04	08.00	235 00 36	19 27 36
02	02	59.00	247 34 48	19 48 00	02	04	09.00	234 51 00	19 25 12
02	03	00.00	247 22 12	19 46 12	02	04	10.00	234 38 24	19 23 24
02	03	01.00	247 11 24	19 46 12	02	04	11.00	234 27 00	19 21 36
02	03	02.00	247 03 36	19 46 12	02	04	12.00	234 18 00	19 20 24
02	03	03.00	246 50 24	19 46 12	02	04	13.00	234 05 24	19 19 48
02	03	04.00	246 36 00	19 46 12	02	04	14.00	233 56 24	19 18 00
02	03	05.00	246 25 12	19 46 12	02	04	15.00	233 46 48	19 16 12
02	03	06.00	246 14 24	19 46 48	02	04	16.00	233 37 48	19 14 24
02	03	07.00	246 04 12	19 46 48	02	04	17.00	233 27 00	19 12 36
02	03	08.00	245 55 12	19 46 48	02	04	18.00	233 18 36	19 12 00
02	03	09.00	245 41 24	19 46 48	02	04	19.00	233 08 24	19 12 00
02	03	10.00	245 29 24	19 46 48	02	04	20.00	232 56 24	19 12 36
02	03	11.00	245 16 12	19 46 48	02	04	21.00	232 46 48	19 12 36
02	03	12.00	245 03 36	19 46 48	02	04	22.00	232 34 48	19 09 36
02	03	13.00	244 55 48	19 46 48	02	04	23.00	232 25 12	19 06 36
02	03	14.00	244 43 48	19 46 48	02	04	24.00	232 15 00	19 04 12
02	03	15.00	244 30 36	19 46 48	02	04	25.00	232 05 24	19 01 12
02	03	16.00	244 17 24	19 46 48	02	04	26.00	231 55 12	18 55 48
02	03	17.00	244 05 24	19 47 24	02	04	27.00	231 47 24	18 54 36
02	03	18.00	243 55 48	19 47 24	02	04	28.00	231 35 24	18 53 24
02	03	19.00	243 43 48	19 47 24	02	04	29.00	231 25 48	18 52 48
02	03	20.00	243 31 48	19 47 24	02	04	30.00	231 17 24	18 50 24
02	03	21.00	243 22 12	19 47 24	02	04	31.00	231 08 24	18 49 12

PATRICK AFB THE00. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	04	32.00	230 58 48	18 48 36	02	05	42.00	220 36 36	16 44 24
02	04	33.00	230 47 24	18 47 24	02	05	43.00	220 27 36	16 42 00
02	04	34.00	230 36 36	18 46 12	02	05	44.00	220 19 48	16 39 00
02	04	35.00	230 26 24	18 45 00	02	05	45.00	220 09 36	16 36 00
02	04	36.00	230 17 24	18 43 48	02	05	46.00	220 01 48	16 34 12
02	04	37.00	230 07 48	18 43 12	02	05	47.00	219 54 00	16 31 12
02	04	38.00	229 55 48	18 42 00	02	05	48.00	219 45 36	16 28 12
02	04	39.00	229 47 24	18 41 24	02	05	49.00	219 39 00	16 24 36
02	04	40.00	229 39 36	18 40 48	02	05	50.00	219 31 48	16 23 24
02	04	41.00	229 30 36	18 40 12	02	05	51.00	219 24 36	16 20 24
02	04	42.00	229 20 24	18 39 00	02	05	52.00	219 12 36	16 18 00
02	04	43.00	229 10 48	18 38 24	02	05	53.00	219 04 12	16 14 24
02	04	44.00	229 00 00	18 37 12	02	05	54.00	218 55 12	16 12 36
02	04	45.00	228 51 00	18 36 36	02	05	55.00	218 47 24	16 10 48
02	04	46.00	228 39 36	18 34 12	02	05	56.00	218 41 24	16 09 36
02	04	47.00	228 28 48	18 32 24	02	05	57.00	218 31 48	16 06 36
02	04	48.00	228 18 36	18 32 24	02	05	58.00	218 22 48	16 04 48
02	04	49.00	228 10 48	18 31 48	02	05	59.00	218 13 48	16 02 24
02	04	50.00	228 04 48	18 29 24	02	06	00.00	218 06 00	16 00 00
02	04	51.00	227 56 24	18 25 12	02	06	01.00	217 58 48	15 58 48
02	04	52.00	227 46 12	18 22 12	02	06	02.00	217 51 00	15 57 36
02	04	53.00	227 37 12	18 19 48	02	06	03.00	217 42 00	15 56 24
02	04	54.00	227 27 36	18 16 48	02	06	04.00	217 38 24	15 55 12
02	04	55.00	227 18 00	18 14 24	02	06	05.00	217 35 24	15 53 24
02	04	56.00	227 09 36	18 12 36	02	06	06.00	217 29 24	15 51 00
02	04	57.00	227 04 12	18 12 00	02	06	07.00	217 19 12	15 48 36
02	04	58.00	226 52 12	18 09 36	02	06	08.00	217 12 00	15 46 48
02	04	59.00	226 40 48	18 07 12	02	06	09.00	217 06 00	15 45 00
02	05	00.00	226 30 00	18 07 12	02	06	10.00	216 55 48	15 42 36
02	05	01.00	226 18 36	18 06 00	02	06	11.00	216 49 12	15 39 00
02	05	02.00	226 09 36	18 04 48	02	06	12.00	216 40 48	15 36 00
02	05	03.00	226 04 12	18 03 36	02	06	13.00	216 36 00	15 34 12
02	05	04.00	225 58 12	18 01 48	02	06	14.00	216 32 24	15 33 00
02	05	05.00	225 55 12	18 00 36	02	06	15.00	216 28 48	15 28 48
02	05	06.00	225 39 36	17 58 12	02	06	16.00	216 22 12	15 25 12
02	05	07.00	225 28 48	17 57 00	02	06	17.00	216 10 48	15 21 36
02	05	08.00	225 19 48	17 55 48	02	06	18.00	216 02 24	15 20 24
02	05	09.00	225 11 24	17 54 36	02	06	19.00	215 52 48	15 17 24
02	05	10.00	225 04 12	17 52 48	02	06	20.00	215 47 24	15 17 24
02	05	11.00	224 57 36	17 52 48	02	06	21.00	215 41 24	15 15 00
02	05	12.00	224 51 00	17 52 12	02	06	22.00	215 37 48	15 15 00
02	05	13.00	224 36 00	17 49 12	02	06	23.00	215 31 12	15 12 00
02	05	14.00	224 27 36	17 48 00	02	06	24.00	215 25 48	15 11 24
02	05	15.00	224 19 48	17 47 24	02	06	25.00	215 18 00	15 09 00
02	05	16.00	224 09 36	17 43 48	02	06	26.00	215 10 12	15 05 24
02	05	17.00	224 03 00	17 39 36	02	06	27.00	215 04 12	15 01 48
02	05	18.00	223 51 36	17 37 12	02	06	28.00	214 56 24	15 00 36
02	05	19.00	223 42 36	17 33 36	02	06	29.00	214 50 24	14 56 24
02	05	20.00	223 34 12	17 29 24	02	06	30.00	214 45 36	14 52 48
02	05	21.00	223 25 48	17 27 00	02	06	31.00	214 40 12	14 52 12
02	05	22.00	223 18 00	17 24 36	02	06	32.00	214 34 12	14 49 12
02	05	23.00	223 10 48	17 22 12	02	06	33.00	214 28 12	14 48 00
02	05	24.00	223 03 36	17 21 00	02	06	34.00	214 23 24	14 46 12
02	05	25.00	222 54 36	17 20 24	02	06	35.00	214 16 12	14 43 48
02	05	26.00	222 46 12	17 17 24	02	06	36.00	214 07 12	14 40 12
02	05	27.00	222 37 48	17 15 00	02	06	37.00	214 01 12	14 38 24
02	05	28.00	222 28 48	17 12 36	02	06	38.00	213 56 24	14 34 48
02	05	29.00	222 21 36	17 10 48	02	06	39.00	213 52 12	14 32 24
02	05	30.00	222 13 12	17 09 36	02	06	40.00	213 46 48	14 28 48
02	05	31.00	222 04 12	17 06 00	02	06	41.00	213 40 48	14 25 48
02	05	32.00	221 58 12	17 05 24	02	06	42.00	213 36 36	14 24 36
02	05	33.00	221 50 24	17 03 00	02	06	43.00	213 30 36	14 22 48
02	05	34.00	221 44 24	17 00 00	02	06	44.00	213 26 24	14 20 24
02	05	35.00	221 33 00	16 55 12	02	06	45.00	213 20 24	14 19 12
02	05	36.00	221 24 36	16 51 36	02	06	46.00	213 13 12	14 17 24
02	05	37.00	221 13 12	16 50 24	02	06	47.00	213 12 00	14 15 00
02	05	38.00	221 04 12	16 49 48	02	06	48.00	212 59 24	14 12 36
02	05	39.00	220 57 00	16 48 00	02	06	49.00	212 51 36	14 11 24
02	05	40.00	220 51 00	16 47 24	02	06	50.00	212 42 36	14 09 00
02	05	41.00	220 45 36	16 46 12	02	06	51.00	212 36 00	14 07 12

PATRICK AFB THEOD. STA. 1.20 LAT. 28 31 29 N LONG. 279 26 21 E HT 0011 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	06	52.00	212 31 12	14 07 12	02	07	10.00	211 10 12	14 01 48
02	06	53.00	212 26 24	14 07 12	02	07	11.00	211 10 12	14 01 48
02	06	54.00	212 18 00	14 06 36	02	07	12.00	211 10 12	14 00 00
02	06	55.00	212 07 48	14 06 36	02	07	13.00	211 10 12	14 00 00
02	06	56.00	212 01 48	14 06 36	02	07	14.00	211 07 48	13 58 48
02	06	57.00	211 56 24	14 06 36	02	07	15.00	211 05 24	13 57 36
02	06	58.00	211 48 00	14 06 36	02	07	16.00	210 57 36	13 56 24
02	06	59.00	211 40 12	14 06 00	02	07	17.00	210 51 00	13 54 36
02	07	00.00	211 36 00	14 05 24	02	07	18.00	210 44 24	13 52 48
02	07	01.00	211 32 24	14 05 24	02	07	19.00	210 38 24	13 51 36
02	07	02.00	211 30 00	14 05 24	02	07	20.00	210 31 48	13 48 36
02	07	03.00	211 27 00	14 05 24	02	07	21.00	210 27 36	13 46 48
02	07	04.00	211 24 36	14 06 00	02	07	22.00	210 24 00	13 45 00
02	07	05.00	211 19 48	14 06 00	02	07	23.00	210 18 36	13 39 36
02	07	06.00	211 17 24	14 06 00	02	07	24.00	210 13 48	13 38 24
02	07	07.00	211 16 12	14 06 00	02	07	25.00	210 09 36	13 34 48
02	07	08.00	211 16 12	14 05 24	02	07	26.00	210 00 36	13 33 00
02	07	09.00	211 10 48	14 02 24	02	07	27.00	209 51 36	13 31 12

PATRICK AFB THEOD. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	01	53.00	262 37 48	18 41 24	02	02	38.00	253 59 24	19 46 48
02	01	54.00	262 26 24	18 43 12	02	02	39.00	253 46 12	19 48 00
02	01	55.00	262 16 12	18 44 24	02	02	40.00	253 32 24	19 48 00
02	01	56.00	262 06 00	18 46 48	02	02	41.00	253 16 48	19 49 12
02	01	57.00	261 59 24	18 46 48	02	02	42.00	253 07 12	19 51 00
02	01	58.00	261 49 48	18 46 48	02	02	43.00	252 57 36	19 52 12
02	01	59.00	261 30 36	18 52 12	02	02	44.00	252 50 24	19 53 24
02	02	00.00	261 13 12	18 54 00	02	02	45.00	252 37 48	19 54 36
02	02	01.00	261 03 36	18 56 24	02	02	46.00	252 22 12	19 54 00
02	02	02.00	260 55 48	18 57 36	02	02	47.00	252 12 00	19 54 00
02	02	03.00	260 45 36	19 00 36	02	02	48.00	251 59 24	19 55 12
02	02	04.00	260 37 48	19 03 00	02	02	49.00	251 46 48	19 55 48
02	02	05.00	260 24 00	19 04 48	02	02	50.00	251 36 36	19 57 00
02	02	06.00	260 09 36	19 01 12	02	02	51.00	251 23 24	19 57 00
02	02	07.00	260 00 36	19 04 48	02	02	52.00	251 14 24	19 57 36
02	02	08.00	259 46 12	19 09 36	02	02	53.00	251 03 00	19 58 12
02	02	09.00	259 33 36	19 11 24	02	02	54.00	250 49 48	19 59 24
02	02	10.00	259 25 48	19 12 00	02	02	55.00	250 38 24	20 00 00
02	02	11.00	259 13 12	19 14 24	02	02	56.00	250 25 12	20 01 12
02	02	12.00	259 03 00	19 17 24	02	02	57.00	250 12 00	20 01 12
02	02	13.00	258 57 36	19 19 12	02	02	58.00	250 02 24	20 01 12
02	02	14.00	258 47 24	19 21 36	02	02	59.00	249 51 00	20 01 48
02	02	15.00	258 27 00	19 20 24	02	03	00.00	249 41 24	20 02 24
02	02	16.00	258 13 48	19 20 24	02	03	01.00	249 28 48	20 03 00
02	02	17.00	258 01 48	19 22 48	02	03	02.00	249 16 48	20 03 36
02	02	18.00	257 49 12	19 23 24	02	03	03.00	249 04 12	20 04 12
02	02	19.00	257 37 12	19 25 12	02	03	04.00	248 54 36	20 04 12
02	02	20.00	257 28 12	19 26 24	02	03	05.00	248 40 48	20 04 12
02	02	21.00	257 15 00	19 27 36	02	03	06.00	248 28 12	20 04 48
02	02	22.00	257 04 48	19 28 12	02	03	07.00	248 15 00	20 05 24
02	02	23.00	256 50 24	19 29 24	02	03	08.00	248 04 12	20 06 36
02	02	24.00	256 40 48	19 31 12	02	03	09.00	247 55 12	20 06 36
02	02	25.00	256 28 12	19 31 48	02	03	10.00	247 43 48	20 06 36
02	02	26.00	256 16 12	19 33 00	02	03	11.00	247 32 24	20 07 12
02	02	27.00	256 04 12	19 33 36	02	03	12.00	247 21 36	20 08 24
02	02	29.00	255 29 24	19 36 36	02	03	13.00	247 10 48	20 07 48
02	02	30.00	255 21 00	19 37 48	02	03	14.00	247 00 36	20 07 12
02	02	31.00	255 07 12	19 39 36	02	03	15.00	246 50 24	20 07 12
02	02	32.00	254 53 24	19 40 12	02	03	16.00	246 42 00	20 07 48
02	02	33.00	254 46 12	19 42 00	02	03	17.00	246 24 00	20 07 48
02	02	34.00	254 38 24	19 43 12	02	03	18.00	246 14 24	20 07 48
02	02	35.00	254 30 00	19 45 00	02	03	19.00	246 00 36	20 08 24
02	02	36.00	254 19 12	19 46 12	02	03	20.00	245 48 36	20 08 24
02	02	37.00	254 12 00	19 46 12	02	03	21.00	245 39 00	20 08 24

PATRICK AFB THEOD. STA. 1.50 LAT. 28 24 29 N LONG. 279 24 09 E HT 0012 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	03	22.00	245 27 36	20 08 24
02	03	23.00	245 15 36	20 08 24
02	03	24.00	245 07 48	20 08 24
02	03	25.00	244 54 36	19 56 24
02	03	26.00	244 42 00	20 09 00
02	03	27.00	244 32 24	20 09 00
02	03	28.00	244 20 24	20 09 00
02	03	29.00	244 07 48	20 09 00
02	03	30.00	243 56 24	20 09 00
02	03	31.00	243 45 36	20 09 00
02	03	32.00	243 34 12	20 09 00
02	03	33.00	243 21 36	20 08 24
02	03	34.00	243 11 24	20 08 24
02	03	35.00	243 02 24	20 07 48
02	03	36.00	242 51 36	20 07 48
02	03	37.00	242 40 48	20 06 36
02	03	38.00	242 30 36	20 06 36
02	03	39.00	242 18 36	20 06 36
02	03	40.00	242 05 24	20 06 36
02	03	41.00	241 53 24	20 05 00
02	03	42.00	241 41 24	20 06 00
02	03	43.00	241 30 36	20 05 24
02	03	44.00	241 21 36	20 04 48
02	03	45.00	241 13 12	20 04 48
02	03	46.00	241 02 24	20 04 48
02	03	47.00	240 51 00	20 04 12
02	03	48.00	240 39 00	20 03 00
02	03	49.00	240 25 48	20 03 00
02	03	50.00	240 16 12	20 02 24
02	03	51.00	240 07 48	20 01 48
02	03	52.00	239 54 00	20 01 12
02	03	53.00	239 43 12	20 00 36
02	03	54.00	239 33 36	20 00 00
02	03	55.00	239 24 00	20 00 00
02	03	56.00	239 13 48	19 58 48
02	03	57.00	239 00 36	19 57 36
02	03	58.00	238 50 24	19 57 36
02	03	59.00	238 40 48	19 57 00
02	04	00.00	238 30 36	19 55 48
02	04	01.00	238 19 12	19 55 12
02	04	02.00	238 07 48	19 54 00
02	04	03.00	237 55 48	19 53 24
02	04	04.00	237 45 36	19 52 48
02	04	05.00	237 33 36	19 52 12
02	04	06.00	237 24 36	19 51 00
02	04	07.00	237 13 12	19 50 24
02	04	08.00	237 03 36	19 49 48
02	04	09.00	236 53 24	19 49 48
02	04	10.00	236 42 00	19 49 48
02	04	11.00	236 30 00	19 49 12
02	04	12.00	236 20 24	19 48 36
02	04	13.00	236 12 36	19 45 36
02	04	14.00	236 00 00	19 44 24
02	04	15.00	235 52 12	19 43 48
02	04	16.00	235 41 24	19 43 12
02	04	17.00	235 29 24	19 42 00
02	04	18.00	235 19 12	19 40 48
02	04	19.00	235 08 24	19 39 00
02	04	20.00	234 58 12	19 37 48
02	04	21.00	234 48 00	19 37 12
02	04	22.00	234 37 48	19 36 00
02	04	23.00	234 27 36	19 35 24
02	04	24.00	234 18 00	19 34 12
02	04	25.00	234 07 12	19 33 36
02	04	26.00	233 56 24	19 31 48
02	04	27.00	233 46 48	19 30 36
02	04	28.00	233 33 36	19 28 48
02	04	29.00	233 22 12	19 28 48
02	04	30.00	233 15 36	19 26 24
02	04	31.00	233 07 48	19 25 48

HR	MIN	SEC	AZIMUTH	ELEVATION
02	04	32.00	232 58 48	19 25 12
02	04	33.00	232 48 36	19 24 00
02	04	34.00	232 37 48	19 22 12
02	04	35.00	232 26 24	19 21 00
02	04	36.00	232 16 12	19 19 12
02	04	37.00	232 06 00	19 17 24
02	04	38.00	231 56 24	19 16 48
02	04	39.00	231 46 12	19 15 36
02	04	40.00	231 36 36	19 13 12
02	04	41.00	231 26 24	19 12 36
02	04	42.00	231 15 00	19 11 24
02	04	43.00	231 07 48	19 08 24
02	04	44.00	230 58 12	19 07 48
02	04	45.00	230 48 36	19 06 00
02	04	46.00	230 40 48	19 05 24
02	04	47.00	230 33 36	19 03 36
02	04	48.00	230 22 12	19 02 24
02	04	49.00	230 12 36	19 01 12
02	04	50.00	229 58 48	18 59 24
02	04	51.00	229 49 12	18 58 12
02	04	52.00	229 41 24	18 57 00
02	04	53.00	229 32 24	18 55 12
02	04	54.00	229 21 36	18 53 24
02	04	55.00	229 12 36	18 51 36
02	04	56.00	229 04 12	18 49 48
02	04	57.00	228 55 48	18 48 00
02	04	58.00	228 45 36	18 46 48
02	04	59.00	228 35 24	18 45 36
02	05	00.00	228 25 48	18 43 48
02	05	01.00	228 15 36	18 42 36
02	05	02.00	228 06 00	18 41 24
02	05	03.00	227 58 48	18 40 12
02	05	04.00	227 50 24	18 38 24
02	05	05.00	227 40 12	18 36 00
02	05	06.00	227 28 12	18 34 48
02	05	07.00	227 20 24	18 33 36
02	05	08.00	227 10 48	18 31 48
02	05	09.00	227 03 00	18 30 36
02	05	10.00	226 57 00	18 27 00
02	05	11.00	226 46 48	18 25 12
02	05	12.00	226 36 00	18 24 36
02	05	13.00	226 25 48	18 23 24
02	05	14.00	226 15 36	18 21 36
02	05	15.00	226 07 12	18 19 12
02	05	16.00	225 56 48	18 18 00
02	05	17.00	225 51 36	18 16 12
02	05	18.00	225 39 36	18 14 24
02	05	19.00	225 31 12	18 13 12
02	05	20.00	225 22 12	18 11 24
02	05	21.00	225 13 12	18 08 24
02	05	22.00	225 04 48	18 06 36
02	05	23.00	224 57 00	18 04 48
02	05	24.00	224 49 12	18 03 00
02	05	25.00	224 41 24	18 01 12
02	05	26.00	224 31 12	18 00 00
02	05	27.00	224 21 36	17 58 12
02	05	28.00	224 15 36	17 55 12
02	05	29.00	224 06 00	17 51 36
02	05	30.00	223 57 00	17 50 24
02	05	31.00	223 48 00	17 49 12
02	05	32.00	223 39 36	17 47 24
02	05	33.00	223 29 24	17 45 36
02	05	34.00	223 23 24	17 43 48
02	05	35.00	223 13 12	17 42 36
02	05	36.00	223 05 24	17 40 48
02	05	37.00	222 58 12	17 38 24
02	05	38.00	222 50 24	17 36 00
02	05	39.00	222 41 24	17 34 12
02	05	40.00	222 32 24	17 33 00
02	05	41.00	222 24 00	17 30 36

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20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	05	42.00	222 14 24	17 27 36
02	05	43.00	222 06 36	17 25 48
02	05	44.00	222 00 00	17 24 36
02	05	45.00	221 51 36	17 22 12
02	05	46.00	221 44 24	17 19 48
02	05	47.00	221 34 12	17 18 00
02	05	48.00	221 25 12	17 16 12
02	05	49.00	221 16 48	17 13 48
02	05	50.00	221 08 24	17 12 00
02	05	51.00	221 00 00	17 09 36
02	05	52.00	220 52 12	17 08 24
02	05	53.00	220 43 48	17 06 00
02	05	54.00	220 36 36	17 03 00
02	05	55.00	220 28 12	17 01 12
02	05	56.00	220 21 00	16 59 24
02	05	57.00	220 13 48	16 57 36
02	05	58.00	220 05 24	16 54 36
02	05	59.00	219 57 36	16 53 24
02	06	00.00	219 49 48	16 51 36
02	06	01.00	219 42 00	16 48 00
02	06	02.00	219 33 00	16 45 00
02	06	03.00	219 24 36	16 44 24
02	06	04.00	219 19 48	16 42 00
02	06	05.00	219 11 24	16 39 00
02	06	06.00	219 03 00	16 37 12
02	06	07.00	218 57 36	16 35 24
02	06	08.00	218 49 12	16 33 36
02	06	09.00	218 42 00	16 31 48
02	06	10.00	218 34 12	16 29 24
02	06	11.00	218 25 48	16 27 36
02	06	12.00	218 18 00	16 25 48
02	06	13.00	218 09 00	16 22 48
02	06	14.00	217 58 48	16 21 36
02	06	15.00	217 50 24	16 19 12
02	06	16.00	217 45 36	16 16 12
02	06	17.00	217 39 00	16 13 48
02	06	18.00	217 32 24	16 11 24
02	06	19.00	217 25 48	16 09 00
02	06	20.00	217 16 48	16 06 36
02	06	21.00	217 10 48	16 05 24
02	06	22.00	217 03 36	16 03 00
02	06	23.00	216 56 24	16 01 12
02	06	24.00	216 45 36	15 57 36
02	06	25.00	216 40 12	15 55 12
02	06	26.00	216 33 36	15 53 24
02	06	27.00	216 26 24	15 50 24
02	06	28.00	216 20 24	15 49 12
02	06	29.00	216 13 48	15 48 00
02	06	30.00	216 04 12	15 45 36
02	06	31.00	215 57 36	15 43 12
02	06	32.00	215 57 00	15 39 36
02	06	33.00	215 42 36	15 37 12
02	06	34.00	215 36 00	15 34 12

HR	MIN	SEC	AZIMUTH	ELEVATION
02	06	35.00	215 30 00	15 31 48
02	06	36.00	215 23 24	15 29 24
02	06	37.00	215 18 00	15 26 24
02	06	38.00	215 08 24	15 24 00
02	06	39.00	214 59 24	15 21 36
02	06	40.00	214 53 24	15 19 48
02	06	41.00	214 46 12	15 18 00
02	06	42.00	214 42 00	15 16 12
02	06	43.00	214 33 00	15 13 12
02	06	44.00	214 26 24	15 12 00
02	06	45.00	214 20 24	15 10 12
02	06	46.00	214 15 00	15 08 24
02	06	47.00	214 04 48	15 06 36
02	06	48.00	213 58 48	15 02 24
02	06	49.00	213 52 48	15 00 00
02	06	50.00	213 45 36	14 57 00
02	06	51.00	213 37 12	14 54 36
02	06	52.00	213 29 24	14 51 36
02	06	53.00	213 23 24	14 47 24
02	06	54.00	213 17 24	14 45 36
02	06	55.00	213 11 24	14 42 36
02	06	56.00	213 04 48	14 42 00
02	06	57.00	212 59 24	14 40 12
02	06	58.00	212 52 12	14 37 48
02	06	59.00	212 46 48	14 35 24
02	07	00.00	212 42 00	14 33 36
02	07	01.00	212 34 12	14 31 12
02	07	02.00	212 25 48	14 28 48
02	07	03.00	212 18 36	14 27 00
02	07	04.00	212 13 12	14 24 36
02	07	05.00	212 07 12	14 22 12
02	07	06.00	212 01 12	14 19 48
02	07	07.00	211 55 12	14 17 24
02	07	08.00	211 49 12	14 15 36
02	07	09.00	211 43 48	14 13 48
02	07	10.00	211 36 36	14 09 36
02	07	11.00	211 28 12	14 07 48
02	07	12.00	211 23 24	14 04 48
02	07	13.00	211 18 00	14 03 00
02	07	14.00	211 10 12	14 01 48
02	07	15.00	211 02 24	13 59 24
02	07	16.00	210 54 36	13 57 00
02	07	17.00	210 47 24	13 54 36
02	07	18.00	210 42 36	13 52 12
02	07	19.00	210 34 48	13 50 24
02	07	20.00	210 28 12	13 46 48
02	07	21.00	210 23 24	13 42 00
02	07	22.00	210 15 36	13 37 12
02	07	23.00	210 09 00	13 34 48
02	07	24.00	210 01 48	13 31 48
02	07	25.00	209 57 36	13 27 36
02	07	26.00	209 57 36	13 25 12
02	07	27.00	209 57 36	13 22 12

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20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	02	44.00	252 24 00	19 39 36
02	02	45.00	252 17 24	19 37 48
02	02	46.00	252 07 48	19 45 00
02	02	47.00	251 56 24	19 53 24
02	02	48.00	251 47 24	19 54 36
02	02	49.00	251 40 12	19 57 36
02	02	50.00	251 27 36	19 55 48
02	02	51.00	251 18 36	19 55 12
02	02	52.00	251 07 48	19 54 36

HR	MIN	SEC	AZIMUTH	ELEVATION
02	02	53.00	250 56 24	19 54 36
02	02	54.00	250 43 12	19 57 36
02	02	55.00	250 28 12	19 57 36
02	02	56.00	250 16 48	19 58 48
02	02	57.00	250 03 00	19 58 48
02	02	58.00	249 50 24	19 58 48
02	02	59.00	249 42 00	20 00 00
02	03	00.00	249 33 00	20 00 00
02	03	01.00	249 19 48	20 01 48

PATRICK AFB THEOD. STA. 1.40 LAT. 28 27 58 N LONG. 279 24 38 E HT 0010 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
02	03	02.00	249 06 00	20 01 48	02	04	12.00	236 11 24	19 43 12
02	03	03.00	248 54 00	20 01 48	02	04	13.00	236 01 48	19 42 00
02	03	04.00	248 44 24	20 03 36	02	04	14.00	235 51 00	19 41 24
02	03	05.00	248 32 24	20 02 24	02	04	15.00	235 42 00	19 40 12
02	03	06.00	248 21 00	20 02 24	02	04	16.00	235 29 24	19 39 36
02	03	07.00	248 09 36	20 02 24	02	04	17.00	235 18 00	19 39 36
02	03	08.00	247 54 36	20 02 24	02	04	18.00	235 07 48	19 39 00
02	03	09.00	247 46 12	20 04 12	02	04	19.00	235 00 00	19 36 00
02	03	10.00	247 37 48	20 04 12	02	04	20.00	234 49 48	19 35 24
02	03	11.00	247 25 12	20 04 48	02	04	21.00	234 37 12	19 34 12
02	03	12.00	247 19 12	20 04 48	02	04	22.00	234 28 48	19 32 24
02	03	13.00	246 58 48	20 06 00	02	04	23.00	234 19 48	19 31 12
02	03	14.00	246 48 00	20 05 24	02	04	24.00	234 08 24	19 30 36
02	03	15.00	246 36 00	20 05 24	02	04	25.00	233 57 36	19 29 24
02	03	16.00	246 24 36	20 05 24	02	04	26.00	233 48 00	19 28 12
02	03	17.00	246 14 24	20 05 24	02	04	27.00	233 39 36	19 27 36
02	03	18.00	246 03 36	20 06 00	02	04	28.00	233 31 12	19 25 48
02	03	19.00	245 51 00	20 06 00	02	04	29.00	233 19 12	19 25 12
02	03	20.00	245 41 24	20 06 00	02	04	30.00	233 07 12	19 23 24
02	03	21.00	245 29 24	20 06 36	02	04	31.00	232 58 12	19 21 36
02	03	22.00	245 18 36	20 06 36	02	04	32.00	232 48 00	19 20 24
02	03	23.00	245 06 00	20 06 36	02	04	33.00	232 36 00	19 19 48
02	03	24.00	244 52 48	20 06 36	02	04	34.00	232 26 24	19 19 12
02	03	25.00	244 44 24	20 06 36	02	04	35.00	232 14 24	19 18 00
02	03	26.00	244 34 48	20 06 36	02	04	36.00	232 03 00	19 16 48
02	03	27.00	244 22 12	20 06 36	02	04	37.00	231 49 48	19 15 36
02	03	28.00	244 11 24	20 06 36	02	04	38.00	231 43 48	19 14 24
02	03	29.00	243 57 36	20 07 12	02	04	39.00	231 33 00	19 13 48
02	03	30.00	243 47 24	20 07 12	02	04	40.00	231 27 00	19 13 12
02	03	31.00	243 37 48	20 07 12	02	04	41.00	231 19 48	19 10 12
02	03	32.00	243 26 24	20 09 36	02	04	42.00	231 11 24	19 09 00
02	03	33.00	243 16 12	20 05 24	02	04	43.00	231 00 00	19 08 24
02	03	34.00	243 00 00	20 05 24	02	04	44.00	230 51 00	19 06 00
02	03	35.00	242 54 36	20 05 24	02	04	45.00	230 40 12	19 04 48
02	03	36.00	242 39 00	20 04 48	02	04	46.00	230 30 36	19 04 12
02	03	37.00	242 29 24	20 04 48	02	04	47.00	230 21 00	19 02 24
02	03	38.00	242 20 24	20 03 36	02	04	48.00	230 09 36	19 01 48
02	03	39.00	242 10 12	20 03 36	02	04	49.00	229 56 24	19 00 36
02	03	40.00	241 57 00	20 03 36	02	04	50.00	229 50 24	18 58 12
02	03	41.00	241 46 12	20 03 36	02	04	51.00	229 44 24	18 55 48
02	03	42.00	241 34 48	20 03 00	02	04	52.00	229 33 36	18 55 48
02	03	43.00	241 24 36	20 02 24	02	04	53.00	229 24 00	18 53 24
02	03	44.00	241 15 00	20 01 48	02	04	54.00	229 16 48	18 52 48
02	03	45.00	241 03 36	20 00 36	02	04	55.00	229 08 24	18 50 24
02	03	46.00	240 53 24	20 00 00	02	04	56.00	228 55 48	18 49 48
02	03	47.00	240 42 36	20 00 00	02	04	57.00	228 47 24	18 48 00
02	03	48.00	240 29 24	19 58 12	02	04	58.00	228 38 24	18 45 36
02	03	49.00	240 18 00	19 59 24	02	04	59.00	228 28 48	18 43 48
02	03	50.00	240 04 48	19 58 48	02	05	00.00	228 18 36	18 42 36
02	03	51.00	239 55 48	19 58 48	02	05	01.00	228 06 36	18 40 12
02	03	52.00	239 46 12	19 58 48	02	05	02.00	227 55 12	18 37 48
02	03	53.00	239 37 48	19 58 48	02	05	03.00	227 46 12	18 37 12
02	03	54.00	239 25 48	19 58 12	02	05	04.00	227 36 00	18 35 24
02	03	55.00	239 13 12	19 59 24	02	05	05.00	227 26 24	18 34 48
02	03	56.00	239 03 00	19 56 24	02	05	06.00	227 17 24	18 31 48
02	03	57.00	238 49 48	19 55 48	02	05	07.00	227 09 36	18 28 12
02	03	58.00	238 39 36	19 43 48	02	05	08.00	226 57 36	18 28 12
02	03	59.00	238 29 24	19 54 00	02	05	09.00	226 52 12	18 25 48
02	04	00.00	238 18 36	19 54 00	02	05	10.00	226 45 36	18 24 36
02	04	01.00	238 08 24	19 52 48	02	05	11.00	226 39 36	18 22 48
02	04	02.00	237 56 24	19 52 48	02	05	12.00	226 29 24	18 21 36
02	04	03.00	237 46 12	19 51 00	02	05	13.00	227 04 12	18 18 00
02	04	04.00	237 36 36	19 49 48	02	05	15.00	225 58 48	18 16 12
02	04	05.00	237 25 48	19 49 48	02	05	16.00	225 51 00	18 13 48
02	04	06.00	237 15 00	19 48 36	02	05	17.00	225 44 24	18 12 00
02	04	07.00	237 06 00	19 47 24	02	05	18.00	225 36 00	18 10 48
02	04	08.00	236 55 48	19 46 48	02	05	19.00	225 27 00	18 09 36
02	04	09.00	236 44 24	19 46 12	02	05	20.00	225 17 24	18 08 24
02	04	10.00	236 34 12	19 45 00	02	05	21.00	225 07 12	18 06 00
02	04	11.00	236 23 24	19 43 48	02	05	22.00	224 58 48	18 03 36

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20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
02	05	23.00	224 49 12	18 01 48
02	05	24.00	224 40 48	17 59 24
02	05	25.00	224 31 48	17 58 48
02	05	26.00	224 18 00	17 57 00
02	05	27.00	224 12 00	17 54 36
02	05	28.00	224 07 12	17 54 00
02	05	29.00	224 00 00	17 51 36
02	05	30.00	223 49 48	17 48 00
02	05	31.00	223 42 36	17 45 36
02	05	32.00	223 34 12	17 42 36
02	05	33.00	223 26 24	17 41 24
02	05	34.00	223 19 12	17 40 48
02	05	35.00	223 10 12	17 39 00
02	05	36.00	223 03 00	17 37 48
02	05	38.00	222 42 00	17 33 00
02	05	39.00	222 34 48	17 31 12
02	05	40.00	222 25 48	17 28 48
02	05	41.00	222 18 36	17 27 00
02	05	42.00	222 05 24	17 25 12
02	05	43.00	221 58 48	17 23 24
02	05	44.00	221 51 36	17 21 00
02	05	45.00	221 45 36	17 18 36
02	05	46.00	221 37 48	17 17 24
02	05	47.00	221 30 00	17 15 36
02	05	48.00	221 23 24	17 13 12
02	05	49.00	221 14 24	17 12 00
02	05	50.00	221 04 12	17 10 48
02	05	51.00	220 55 12	17 07 48
02	05	52.00	220 47 24	17 05 24
02	05	53.00	220 39 00	17 02 24
02	05	54.00	220 30 36	17 00 36
02	05	55.00	220 25 48	16 59 24
02	05	56.00	220 18 36	16 56 24
02	05	57.00	220 12 00	16 55 12
02	05	58.00	220 02 24	16 52 48
02	05	59.00	219 51 00	16 50 24
02	06	00.00	219 43 12	16 48 36
02	06	01.00	219 35 24	16 45 36
02	06	02.00	219 29 24	16 43 48
02	06	03.00	219 20 24	16 42 00
02	06	04.00	219 12 00	16 39 36
02	06	05.00	219 07 12	16 37 48
02	06	06.00	218 58 48	16 35 24
02	06	07.00	218 53 24	16 34 48
02	06	08.00	218 44 24	16 29 24
02	06	09.00	218 36 36	16 27 36
02	06	10.00	218 28 12	16 25 48
02	06	11.00	218 22 12	16 24 00
02	06	12.00	218 14 24	16 23 24
02	06	13.00	218 08 24	16 20 24
02	06	14.00	218 00 36	16 16 48
02	06	15.00	217 53 24	16 15 36
02	06	16.00	217 44 24	16 13 12
02	06	17.00	217 34 48	16 10 12
02	06	18.00	217 26 24	16 08 24
02	06	19.00	217 20 24	16 06 00
02	06	20.00	217 12 00	16 04 12
02	06	21.00	217 04 48	16 02 24
02	06	22.00	216 57 36	16 01 48
02	06	23.00	216 50 24	16 00 00
02	06	24.00	216 43 12	15 53 24
02	06	25.00	216 36 36	15 52 12

HR	MIN	SEC	AZIMUTH	ELEVATION
02	06	26.00	216 30 00	15 49 48
02	06	27.00	216 23 24	15 46 12
02	06	28.00	216 17 24	15 43 12
02	06	29.00	216 10 48	15 42 00
02	06	30.00	216 04 12	15 40 48
02	06	31.00	215 55 48	15 39 36
02	06	32.00	215 45 36	15 37 12
02	06	33.00	215 39 00	15 34 12
02	06	34.00	215 31 12	15 31 12
02	06	35.00	215 23 24	15 29 24
02	06	36.00	215 19 12	15 28 12
02	06	37.00	215 13 12	15 25 12
02	06	38.00	215 04 48	15 22 48
02	06	39.00	214 54 00	15 19 48
02	06	40.00	214 48 36	15 17 24
02	06	41.00	214 39 00	15 15 36
02	06	42.00	214 28 12	15 13 12
02	06	43.00	214 23 24	15 10 48
02	06	44.00	214 14 24	15 07 12
02	06	45.00	214 03 36	15 04 48
02	06	46.00	213 53 24	15 03 36
02	06	47.00	213 48 36	15 03 00
02	06	48.00	213 47 24	15 00 36
02	06	49.00	213 45 00	14 56 24
02	06	50.00	213 38 24	14 54 00
02	06	51.00	213 30 00	14 53 24
02	06	52.00	213 21 36	14 52 48
02	06	53.00	213 15 36	14 52 12
02	06	54.00	213 10 12	14 51 36
02	06	55.00	213 09 00	14 46 12
02	06	56.00	213 04 12	14 40 48
02	06	57.00	212 57 36	14 37 48
02	06	58.00	212 51 36	14 34 48
02	06	59.00	212 45 36	14 33 36
02	07	00.00	212 39 36	14 31 48
02	07	01.00	212 34 48	14 29 24
02	07	02.00	212 28 12	14 26 24
02	07	03.00	212 22 12	14 23 24
02	07	04.00	212 13 12	14 20 24
02	07	05.00	212 06 00	14 18 00
02	07	06.00	212 00 36	14 16 12
02	07	07.00	211 53 24	14 14 24
02	07	08.00	211 48 36	14 13 12
02	07	09.00	211 42 36	14 10 48
02	07	10.00	211 35 24	14 07 48
02	07	11.00	211 28 48	14 04 12
02	07	12.00	211 22 48	14 00 36
02	07	13.00	211 15 00	13 57 36
02	07	14.00	211 07 48	13 55 12
02	07	15.00	211 02 24	13 52 12
02	07	16.00	210 57 00	13 49 48
02	07	17.00	210 52 48	13 45 00
02	07	18.00	210 46 48	13 40 48
02	07	19.00	210 38 24	13 39 36
02	07	20.00	210 31 12	13 41 24
02	07	21.00	210 24 36	13 39 00
02	07	22.00	210 09 00	13 34 12
02	07	23.00	209 59 24	13 31 48
02	07	24.00	209 52 12	13 30 36
02	07	25.00	209 46 12	13 29 24
02	07	26.00	209 43 48	13 25 48
02	07	27.00	209 43 48	13 25 48

EDWARDS AFB THEOD. STA. 9.

LAT. 34 56 43 N

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HT 0785 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION	HR	MIN	SEC	AZIMUTH	ELEVATION
03	48	02.00	208 34 48	27 32 27	03	49	12.00	197 47 16	22 17 24
03	48	03.00	208 20 06	27 28 12	03	49	13.00	197 39 43	22 12 54
03	48	04.00	208 11 06	27 23 20	03	49	14.00	197 33 03	22 09 10
03	48	05.00	208 00 14	27 16 48	03	49	15.00	197 26 24	22 05 47
03	48	06.00	207 49 12	27 14 56	03	49	16.00	197 18 36	22 00 36
03	48	07.00	207 33 36	27 09 03	03	49	17.00	197 10 08	21 56 24
03	48	08.00	207 24 32	27 04 44	03	49	18.00	197 01 51	21 51 03
03	48	09.00	207 14 02	26 59 24	03	49	19.00	196 56 27	21 46 08
03	48	10.00	207 04 12	26 56 31	03	49	20.00	196 50 16	21 42 00
03	48	11.00	206 54 36	26 50 02	03	49	21.00	196 44 02	21 38 42
03	48	12.00	206 45 00	26 46 04	03	49	22.00	196 35 16	21 34 58
03	48	13.00	206 29 42	26 44 06	03	49	23.00	196 28 40	21 30 28
03	48	14.00	206 19 30	26 38 20	03	49	24.00	196 20 24	21 24 54
03	48	15.00	206 10 48	26 33 10	03	49	25.00	196 12 25	21 20 34
03	48	16.00	206 00 54	26 29 20	03	49	26.00	196 07 12	21 16 22
03	48	17.00	205 52 51	26 24 25	03	49	27.00	195 59 56	21 10 51
03	48	18.00	205 39 36	26 19 12	03	49	28.00	195 52 55	21 06 00
03	48	19.00	205 29 38	26 15 54	03	49	29.00	195 46 37	21 03 36
03	48	20.00	205 21 36	26 11 52	03	49	30.00	195 40 30	21 00 32
03	48	21.00	205 12 00	26 07 01	03	49	31.00	195 33 00	20 55 12
03	48	22.00	205 01 12	26 02 56	03	49	32.00	195 25 51	20 51 28
03	48	23.00	204 50 56	25 55 48	03	49	33.00	195 21 14	20 45 39
03	48	24.00	204 40 48	25 51 36	03	49	34.00	195 14 06	20 42 54
03	48	25.00	204 25 26	25 48 36	03	49	35.00	195 04 40	20 38 34
03	48	26.00	204 21 07	25 43 44	03	49	36.00	194 58 22	20 34 12
03	48	27.00	204 12 36	25 38 24	03	49	37.00	194 54 03	20 29 24
03	48	28.00	204 01 51	25 34 12	03	49	38.00	194 49 04	20 26 13
03	48	29.00	203 53 24	25 30 32	03	49	39.00	194 44 20	20 22 48
03	48	30.00	203 43 48	25 24 00	03	49	40.00	194 33 28	20 17 24
03	48	31.00	203 32 16	25 20 24	03	49	41.00	194 25 30	20 12 32
03	48	32.00	203 18 00	25 17 09	03	49	42.00	194 22 12	20 08 56
03	48	33.00	203 14 24	25 12 54	03	49	43.00	194 15 00	20 04 44
03	48	34.00	203 05 02	25 06 54	03	49	44.00	194 10 12	20 00 50
03	48	35.00	202 55 44	25 02 13	03	49	45.00	194 01 26	19 57 36
03	48	36.00	202 49 12	24 58 48	03	49	46.00	193 55 58	19 52 15
03	48	37.00	202 39 54	24 52 58	03	49	47.00	193 50 13	19 48 00
03	48	38.00	202 27 36	24 49 55	03	49	48.00	193 44 24	19 43 26
03	48	39.00	202 18 18	24 44 27	03	49	49.00	193 37 33	19 39 10
03	48	40.00	202 09 10	24 40 48	03	49	50.00	193 31 12	19 34 58
03	48	41.00	202 00 28	24 34 44	03	49	51.00	193 24 39	19 31 08
03	48	42.00	201 52 48	24 31 12	03	49	52.00	193 18 54	19 26 52
03	48	43.00	201 44 09	24 26 45	03	49	53.00	193 14 06	19 22 48
03	48	44.00	201 35 24	24 22 48	03	49	54.00	193 08 24	19 18 32
03	48	45.00	201 26 27	24 18 00	03	49	55.00	193 00 54	19 13 44
03	48	46.00	201 17 13	24 13 12	03	49	56.00	192 54 36	19 09 28
03	48	47.00	201 08 24	24 08 24	03	49	57.00	192 50 16	19 05 42
03	48	48.00	200 59 56	24 03 54	03	49	58.00	192 44 20	19 01 51
03	48	49.00	200 49 48	23 59 24	03	49	59.00	192 39 00	18 58 30
03	48	50.00	200 44 24	23 54 32	03	50	00.00	192 32 20	18 55 12
03	48	51.00	200 36 00	23 51 00	03	50	01.00	192 27 18	18 51 00
03	48	52.00	200 25 48	23 47 02	03	50	02.00	192 22 15	18 46 15
03	48	53.00	200 17 24	23 42 00	03	50	03.00	192 15 36	18 42 36
03	48	54.00	200 10 48	23 36 32	03	50	04.00	192 10 37	18 37 44
03	48	55.00	200 02 24	23 32 20	03	50	05.00	192 03 54	18 33 18
03	48	56.00	199 53 38	23 28 08	03	50	06.00	191 58 12	18 29 06
03	48	57.00	199 45 46	23 22 15	03	50	07.00	191 51 36	18 25 12
03	48	58.00	199 36 36	23 19 48	03	50	08.00	191 46 30	18 21 03
03	48	59.00	199 29 56	23 15 39	03	50	09.00	191 42 54	18 18 18
03	49	00.00	199 20 34	23 11 02	03	50	10.00	191 38 06	18 13 48
03	49	01.00	199 12 36	23 08 24	03	50	11.00	191 30 32	18 09 36
03	49	02.00	199 05 13	23 01 48	03	50	12.00	191 24 46	18 05 06
03	49	03.00	198 57 36	22 56 56	03	50	13.00	191 19 48	18 01 33
03	49	04.00	198 48 54	22 52 40	03	50	14.00	191 14 13	17 58 12
03	49	05.00	198 39 46	22 49 01	03	50	15.00	191 09 36	17 54 00
03	49	06.00	198 32 42	22 44 13	03	50	16.00	191 05 13	17 49 48
03	49	07.00	198 25 12	22 40 15	03	50	17.00	191 00 18	17 45 57
03	49	08.00	198 17 24	22 35 24	03	50	18.00	190 53 24	17 42 32
03	49	09.00	198 09 03	22 31 22	03	50	19.00	190 47 27	17 36 43
03	49	10.00	198 03 36	22 26 24	03	50	20.00	190 43 48	17 33 39
03	49	11.00	197 55 37	22 22 37	03	50	21.00	190 37 48	17 30 36

EDWARDS AFB 7HE00. STA. 9.

LAT. 34 56 43 N

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20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
03	50	22.00	190 33 00	17 25 44
03	50	23.00	190 27 36	17 22 37
03	50	24.00	190 23 24	17 18 00
03	50	25.00	190 18 00	17 16 12
03	50	26.00	190 11 06	17 12 00
03	50	27.00	190 06 36	17 06 00
03	50	28.00	190 02 24	17 02 20
03	50	29.00	189 58 04	16 57 21
03	50	30.00	189 52 40	16 54 32
03	50	31.00	189 46 48	16 50 20
03	50	32.00	189 42 00	16 46 44
03	50	33.00	189 37 48	16 42 28
03	50	34.00	189 32 24	16 38 38
03	50	35.00	189 27 18	16 34 12
03	50	36.00	189 23 42	16 31 12
03	50	37.00	189 17 16	16 27 32
03	50	38.00	189 13 15	16 23 27
03	50	39.00	189 09 36	16 19 48
03	50	40.00	189 05 13	16 14 24
03	50	41.00	189 02 13	16 11 06
03	50	42.00	188 55 12	16 07 48
03	50	43.00	188 49 08	16 03 00
03	50	44.00	188 45 18	15 58 15
03	50	45.00	188 40 44	15 56 16
03	50	46.00	188 37 30	15 52 12
03	50	47.00	188 31 44	15 49 08
03	50	48.00	188 28 12	15 45 32
03	50	49.00	188 23 24	15 42 00
03	50	50.00	188 18 14	15 38 56
03	50	51.00	188 13 48	15 33 46
03	50	52.00	188 09 03	15 30 36
03	50	53.00	188 04 30	15 26 38
03	50	54.00	188 00 36	15 23 24
03	50	55.00	187 56 24	15 20 24
03	50	56.00	187 51 36	15 15 36
03	50	57.00	187 48 00	15 13 12
03	50	58.00	187 40 19	15 08 27
03	50	59.00	187 38 55	15 05 02
03	51	00.00	187 34 48	15 00 36
03	51	01.00	187 29 06	14 57 00
03	51	02.00	187 26 20	14 53 52
03	51	03.00	187 21 00	14 50 20
03	51	04.00	187 19 15	14 47 24
03	51	05.00	187 15 36	14 43 48
03	51	06.00	187 09 14	14 40 48
03	51	07.00	187 05 42	14 36 36
03	51	08.00	187 03 39	14 31 51
03	51	09.00	186 56 06	14 29 20
03	51	10.00	186 52 19	14 25 48
03	51	11.00	186 48 00	14 22 30
03	51	12.00	186 43 30	14 19 08
03	51	13.00	186 39 00	14 15 00
03	51	14.00	186 36 00	14 10 48
03	51	15.00	186 32 31	14 06 36
03	51	16.00	186 28 48	14 03 14
03	51	17.00	186 23 27	14 00 03
03	51	18.00	186 20 24	13 55 12
03	51	19.00	186 17 38	13 52 08
03	51	20.00	186 12 36	13 48 03
03	51	21.00	186 08 13	13 45 14
03	51	22.00	186 04 44	13 42 36
03	51	23.00	186 00 39	13 38 38
03	51	24.00	185 56 52	13 33 50
03	51	25.00	185 54 00	13 30 18
03	51	26.00	185 49 51	13 27 00
03	51	27.00	185 46 12	13 23 38
03	51	28.00	185 43 08	13 19 48
03	51	29.00	185 37 01	13 17 16
03	51	30.00	185 33 32	13 13 12
03	51	31.00	185 30 39	13 10 22

HR	MIN	SEC	AZIMUTH	ELEVATION
03	51	32.00	185 26 27	13 07 15
03	51	33.00	185 23 24	13 03 21
03	51	34.00	185 20 02	13 00 14
03	51	35.00	185 16 48	12 56 24
03	51	36.00	185 11 24	12 52 48
03	51	37.00	185 06 28	12 49 12
03	51	38.00	185 03 54	12 47 24
03	51	39.00	185 00 36	12 43 08
03	51	40.00	184 57 28	12 39 46
03	51	41.00	184 53 24	12 37 37
03	51	42.00	184 50 42	12 33 36
03	51	43.00	184 48 36	12 28 19
03	51	44.00	184 46 08	12 24 54
03	51	45.00	184 40 12	12 22 12
03	51	46.00	184 36 00	12 18 00
03	51	47.00	184 33 21	12 15 32
03	51	48.00	184 29 13	12 12 03
03	51	49.00	184 25 44	12 03 25
03	51	50.00	184 22 48	12 06 00
03	51	51.00	184 20 13	12 01 51
03	51	52.00	184 15 39	12 00 03
03	51	53.00	184 11 06	11 56 24
03	51	54.00	184 09 25	11 52 48
03	51	55.00	184 05 27	11 49 12
03	51	56.00	184 02 02	11 45 00
03	51	57.00	183 58 15	11 42 00
03	51	58.00	183 54 43	11 39 36
03	51	59.00	183 51 36	11 37 15
03	52	00.00	183 46 48	11 33 43
03	52	01.00	183 46 30	11 29 38
03	52	02.00	183 44 06	11 25 30
03	52	03.00	183 40 44	11 23 31
03	52	04.00	183 36 54	11 19 22
03	52	05.00	183 32 16	11 15 36
03	52	06.00	183 30 54	11 12 18
03	52	07.00	183 29 13	11 07 55
03	52	08.00	183 23 34	11 04 33
03	52	09.00	183 19 22	11 02 31
03	52	10.00	183 17 42	10 59 09
03	52	11.00	183 11 13	10 57 00
03	52	12.00	183 10 12	10 53 02
03	52	13.00	183 08 24	10 49 51
03	52	14.00	183 04 26	10 47 56
03	52	15.00	183 01 33	10 45 00
03	52	16.00	182 58 12	10 37 15
03	52	17.00	182 54 54	10 37 08
03	52	18.00	182 51 32	10 33 36
03	52	19.00	182 48 00	10 30 32
03	52	20.00	182 45 54	10 27 36
03	52	21.00	182 43 48	10 24 00
03	52	22.00	182 38 20	10 19 48
03	52	23.00	182 36 36	10 16 19
03	52	24.00	182 33 57	10 14 06
03	52	25.00	182 31 30	10 10 48
03	52	26.00	182 27 36	10 08 24
03	52	27.00	182 25 12	10 05 02
03	52	28.00	182 22 12	10 02 02
03	52	29.00	182 19 48	10 00 03
03	52	30.00	182 18 36	09 58 08
03	52	31.00	182 17 24	09 55 12
03	52	32.00	182 11 31	09 49 01
03	52	33.00	182 07 22	09 46 15
03	52	34.00	182 04 12	09 43 08
03	52	35.00	182 01 33	09 39 18
03	52	36.00	181 58 30	09 36 00
03	52	37.00	181 54 00	09 34 48
03	52	38.00	181 47 56	09 33 43
03	52	39.00	181 45 36	09 32 06
03	52	40.00	181 43 36	09 25 12
03	52	41.00	181 45 03	09 21 00

EDWARDS AFB THEOO. STA. 9. LAT. 34 56 43 N LONG. 242 05 14 E HT 6785 M

20 MAY 58

HR MIN SEC AZIMUTH ELEVATION

03 52 42.00 181 43 15 09 17 27
 03 52 43.00 181 39 36 09 14 42
 03 52 44.00 181 37 30 09 12 00
 03 52 45.00 181 35 16 09 06 32
 03 52 46.00 181 33 00 09 01 26

03 52 47.00 181 32 24 08 58 12
 03 52 48.00 181 26 56 08 56 56
 03 52 49.00 181 23 16 08 54 36
 03 52 50.00 181 20 49 08 51 50
 03 52 51.00 181 17 42 08 50 24

03 52 52.00 181 15 36 08 47 24
 03 52 53.00 181 13 19 08 43 48
 03 52 54.00 181 10 48 08 40 30
 03 52 55.00 181 00 32 08 36 50
 03 52 56.00 181 03 00 08 35 49

03 52 57.00 181 01 12 08 31 19
 03 52 58.00 181 00 36 08 28 48
 03 52 59.00 180 57 36 08 25 08
 03 53 00.00 180 54 50 08 23 20
 03 53 01.00 180 53 13 08 20 45

03 53 02.00 180 52 30 08 17 24
 03 53 03.00 180 51 28 08 14 20
 03 53 04.00 180 44 02 08 11 06
 03 53 05.00 180 41 49 08 08 24
 03 53 06.00 180 39 00 08 05 24

03 53 07.00 180 36 36 08 01 48
 03 53 08.00 180 34 08 07 59 56
 03 53 09.00 180 31 06 07 58 33
 03 53 10.00 180 29 52 07 55 44
 03 53 11.00 180 27 46 07 53 38

03 53 12.00 180 22 40 07 49 12
 03 53 13.00 180 21 54 07 45 32
 03 53 14.00 180 21 03 07 42 00
 03 53 15.00 180 19 55 07 37 48
 03 53 16.00 180 18 03 07 34 15

03 53 17.00 180 17 09 07 31 22
 03 53 18.00 180 16 15 07 28 51
 03 53 19.00 180 15 36 07 26 24
 03 53 20.00 180 15 36 07 22 48
 03 53 21.00 180 03 00 07 22 44

03 53 22.00 179 51 00 07 22 44
 03 53 23.00 179 46 19 07 22 44
 03 53 24.00 179 46 04 07 20 20
 03 53 25.00 179 45 50 07 16 55
 03 53 26.00 179 45 36 07 15 00

03 53 27.00 179 45 18 07 12 18
 03 53 28.00 179 45 36 07 07 08
 03 53 29.00 179 45 32 06 59 24
 03 53 30.00 179 45 36 06 57 18
 03 53 31.00 179 44 24 06 54 39

03 53 32.00 179 44 24 06 51 39
 03 53 33.00 179 44 20 06 43 44
 03 53 34.00 179 44 24 06 39 00
 03 53 35.00 179 44 24 06 36 36
 03 53 36.00 179 30 32 06 34 30

03 53 37.00 179 24 36 06 31 30
 03 53 38.00 179 23 27 06 28 48
 03 53 39.00 179 22 51 06 26 06
 03 53 40.00 179 22 44 06 24 03
 03 53 41.00 179 21 46 06 21 36

03 53 42.00 179 21 32 06 17 20
 03 53 43.00 179 21 32 06 14 52
 03 53 44.00 179 08 24 06 11 34
 03 53 45.00 179 04 40 06 10 12
 03 53 46.00 179 04 12 06 06 03

03 53 47.00 179 03 28 06 03 03
 03 53 48.00 179 02 24 05 59 45
 03 53 49.00 178 57 46 05 56 24
 03 53 50.00 178 56 24 05 48 36
 03 53 51.00 178 52 51 05 39 36

HR MIN SEC AZIMUTH ELEVATION

03 53 52.00 178 48 36 05 38 27
 03 53 53.00 178 45 03 05 38 24
 03 53 54.00 178 41 38 05 37 46
 03 53 55.00 178 39 36 05 37 12
 03 53 56.00 178 39 18 05 35 24

03 53 57.00 178 38 24 05 35 16
 03 53 58.00 178 33 36 05 34 12
 03 53 59.00 178 30 28 05 32 56
 03 54 00.00 178 28 12 05 31 12
 03 54 01.00 178 28 55 05 27 50

03 54 02.00 178 30 25 05 24 00
 03 54 03.00 178 28 12 05 21 00
 03 54 04.00 178 27 10 05 19 48
 03 54 05.00 178 27 00 05 17 20
 03 54 06.00 178 26 24 05 16 51

03 54 07.00 178 26 24 05 16 04
 03 54 08.00 178 25 15 05 10 48
 03 54 09.00 178 16 15 05 08 20
 03 54 10.00 178 11 38 05 05 27
 03 54 11.00 178 10 08 05 01 19

03 54 12.00 178 09 18 04 59 24
 03 54 13.00 178 09 18 04 55 04
 03 54 14.00 178 09 18 04 53 24
 03 54 15.00 178 01 04 04 51 00
 03 54 16.00 178 00 18 04 47 27

03 54 17.00 177 59 52 04 44 20
 03 54 18.00 177 59 06 04 41 27
 03 54 19.00 177 57 36 04 40 33
 03 54 20.00 177 54 46 04 39 00
 03 54 21.00 177 55 12 04 36 32

03 54 22.00 177 52 08 04 34 48
 03 54 23.00 177 48 36 04 28 44
 03 54 24.00 177 45 10 04 25 12
 03 54 25.00 177 43 48 04 22 40
 03 54 26.00 177 42 50 04 20 24

03 54 27.00 177 40 48 04 17 27
 03 54 28.00 177 35 42 04 15 32
 03 54 29.00 177 32 24 04 13 48
 03 54 30.00 177 31 12 04 12 32
 03 54 31.00 177 30 10 04 08 24

03 54 32.00 177 29 20 04 06 00
 03 54 33.00 177 28 44 04 04 48
 03 54 34.00 177 28 22 04 00 07
 03 54 35.00 177 26 42 03 55 26
 03 54 36.00 177 24 00 03 51 00

03 54 37.00 177 23 27 03 49 26
 03 54 38.00 177 23 06 03 45 18
 03 54 39.00 177 20 52 03 44 24
 03 54 40.00 177 19 08 03 43 40
 03 54 41.00 177 19 08 03 42 18

03 54 42.00 177 19 08 03 40 08
 03 54 43.00 177 13 51 03 39 28
 03 54 44.00 177 11 20 03 38 16
 03 54 45.00 177 10 55 03 36 36
 03 54 46.00 177 10 33 03 36 00

03 54 47.00 177 03 50 03 30 21
 03 54 48.00 177 02 42 03 29 27
 03 54 49.00 176 58 55 03 27 00
 03 54 50.00 176 56 24 03 23 09
 03 54 51.00 176 56 24 03 19 48

03 54 52.00 176 56 16 03 15 36
 03 54 53.00 176 56 16 03 14 06
 03 54 54.00 176 56 31 03 08 02
 03 54 55.00 176 56 31 03 01 48
 03 54 56.00 176 56 24 03 00 07

03 54 57.00 176 52 48 02 59 24
 03 54 58.00 176 49 22 02 58 26
 03 54 59.00 176 46 26 02 58 26
 03 55 00.00 176 35 02 02 58 26
 03 55 01.00 176 32 24 02 55 37

EDWARDS AFB THEOD. STA. 9. LAT. 34 56 43 N LONG. 242 05 14 E HT 0785 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
03	55	02.00	176 32 24	02 52 12
03	55	03.00	176 32 31	02 52 08
03	55	04.00	176 32 27	02 52 08
03	55	05.00	176 32 24	02 52 08
03	55	06.00	176 30 36	02 52 08
03	55	07.00	176 28 40	02 51 28
03	55	08.00	176 26 06	02 44 24
03	55	09.00	176 22 04	02 40 51
03	55	10.00	176 18 36	02 38 20
03	55	11.00	176 14 27	02 34 48

HR	MIN	SEC	AZIMUTH	ELEVATION
03	55	12.00	176 13 44	02 28 30
03	55	13.00	176 13 44	02 25 04
03	55	14.00	176 16 26	02 21 39
03	55	15.00	176 23 27	02 19 12
03	55	16.00	176 25 40	02 15 39
03	55	17.00	176 27 54	02 15 36
03	55	18.00	176 46 04	02 15 36
03	55	19.00	176 18 43	02 15 36
03	55	20.00	176 41 42	02 15 36

PATRICK AFB RADAR STA. XN-2 LAT. 26 36 55 N LONG. 281 39 06 E HT 0014 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
14	58	30.00	197 44 24	37 52 48
14	58	31.00	197 33 00	37 31 48
14	58	32.00	197 21 36	37 34 12
14	58	33.00	197 10 12	37 16 48
14	58	34.00	196 59 24	37 14 24
14	58	35.00	196 52 12	37 03 36
14	58	36.00	196 39 00	36 55 12
14	58	37.00	196 20 24	36 55 12
14	58	38.00	196 06 36	37 00 00
14	58	39.00	196 04 48	36 33 36
14	58	40.00	195 52 48	36 34 12
14	58	41.00	195 46 48	36 27 36
14	58	42.00	195 30 36	36 12 36
14	58	43.00	195 26 24	36 22 12
14	58	44.00	195 16 12	36 16 12
14	58	45.00	195 03 00	36 05 24
14	58	46.00	194 57 00	36 09 36
14	58	47.00	194 54 00	36 13 12
14	58	48.00	194 44 24	35 31 48
14	58	49.00	193 54 36	35 32 24
14	58	50.00	194 01 48	35 21 00
14	58	51.00	194 02 24	35 10 12
14	58	52.00	193 57 36	33 58 48
14	58	53.00	193 55 12	34 39 36
14	58	54.00	193 55 12	34 35 24
14	58	55.00	193 25 48	33 40 12
14	58	56.00	193 08 24	33 57 00
14	58	57.00	193 10 12	34 00 36
14	58	58.00	193 06 36	34 18 36
14	58	59.00	193 04 48	34 09 36
14	59	00.00	192 40 48	34 08 24
14	59	01.00	192 43 12	34 13 48
14	59	02.00	192 27 00	34 00 36
14	59	03.00	192 15 00	34 01 12
14	59	04.00	192 06 36	33 49 12
14	59	05.00	191 55 12	33 44 24
14	59	06.00	191 49 12	33 33 36
14	59	07.00	191 40 48	33 28 12
14	59	08.00	191 38 24	34 00 00
14	59	09.00	191 34 48	33 31 48
14	59	10.00	191 07 48	33 02 24
14	59	11.00	191 04 12	33 22 12
14	59	12.00	190 59 24	32 54 36
14	59	13.00	190 53 24	35 10 24
14	59	14.00	190 49 48	32 55 12
14	59	15.00	190 31 48	32 41 24
14	59	16.00	190 22 12	32 30 00
14	59	17.00	190 12 36	32 20 24
14	59	18.00	190 07 36	32 16 48
14	59	19.00	190 04 48	32 18 00
14	59	20.00	189 55 48	32 04 48
14	59	21.00	189 48 00	32 03 36

HR	MIN	SEC	AZIMUTH	ELEVATION
14	59	22.00	189 46 48	32 02 24
14	59	23.00	189 48 00	32 09 36
14	59	24.00	189 41 24	31 51 00
14	59	25.00	189 23 24	31 22 48
14	59	26.00	189 06 00	31 16 12
14	59	27.00	188 54 36	31 09 36
14	59	28.00	188 49 12	31 03 36
14	59	29.00	188 47 24	31 01 48
14	59	30.00	188 48 36	30 42 00
14	59	31.00	188 39 36	30 03 00
14	59	32.00	188 21 00	29 55 12
14	59	33.00	188 08 24	30 12 00
14	59	34.00	188 08 24	30 04 48
14	59	35.00	188 07 48	29 44 24
14	59	36.00	188 46 48	29 09 36
14	59	37.00	188 54 36	29 06 36
14	59	38.00	187 36 36	28 59 24
14	59	39.00	187 38 24	29 31 48
14	59	40.00	187 37 12	29 41 24
14	59	41.00	187 37 12	29 49 12
14	59	42.00	187 36 36	30 22 48
14	59	43.00	187 33 00	30 01 12
14	59	44.00	187 03 36	29 22 48
14	59	45.00	187 01 48	29 04 48
14	59	46.00	186 39 36	29 13 12
14	59	47.00	186 41 24	29 03 00
14	59	48.00	186 39 00	29 08 24
14	59	49.00	186 31 48	28 58 48
14	59	50.00	186 28 12	28 47 24
14	59	51.00	186 23 24	28 54 00
14	59	52.00	186 17 24	28 41 24
14	59	53.00	186 11 24	28 40 12
14	59	54.00	186 06 00	28 31 48
14	59	55.00	186 03 36	28 09 36
14	59	56.00	186 01 12	27 57 00
14	59	57.00	186 00 00	27 46 12
14	59	58.00	185 58 48	27 43 48
14	59	59.00	186 00 36	27 40 12
15	00	00.00	185 59 24	27 27 36
15	00	01.00	185 59 24	27 21 00
15	00	02.00	186 00 36	27 19 48
15	00	03.00	185 59 24	27 10 48
15	00	04.00	186 00 36	27 03 36
15	00	05.00	186 00 36	26 59 24
15	00	06.00	186 00 00	26 39 36
15	00	07.00	185 59 24	26 12 36
15	00	08.00	186 00 36	26 01 12
15	00	09.00	186 00 36	25 34 12
15	00	10.00	186 00 36	24 21 36
15	00	11.00	186 00 36	24 25 12
15	00	12.00	186 01 12	24 25 48
15	00	13.00	186 01 12	24 18 00

PATRICK AFB RADAR STA. XN-2 LAT. 26 35 55 N LONG. 281 39 06 E HT 0014 M

20 MAY 58

HR	MIN	SEC	AZIMUTH	ELEVATION
15	00	14.00	186 00 00	24 17 24
15	00	15.00	186 01 12	24 02 24
15	00	16.00	186 00 36	23 42 36
15	00	17.00	186 00 36	23 00 00
15	00	18.00	186 01 12	23 09 00
15	00	19.00	186 01 12	23 12 36
15	00	20.00	186 01 12	23 01 48
15	00	21.00	186 00 36	22 58 48
15	00	22.00	186 00 36	22 48 36
15	00	23.00	185 58 48	22 35 24
15	00	24.00	185 56 24	21 45 36
15	00	25.00	185 50 24	21 06 00
15	00	26.00	185 45 36	20 19 12
15	00	27.00	185 43 12	19 41 24
15	00	28.00	185 39 36	19 28 48
15	00	29.00	185 38 24	18 31 48
15	00	30.00	185 36 36	18 54 36
15	00	31.00	185 36 00	18 40 12
15	00	32.00	185 38 24	20 06 00
15	00	33.00	185 10 48	20 37 12
15	00	34.00	185 15 36	20 51 00
15	00	35.00	185 15 00	20 51 36
15	00	36.00	185 13 48	20 29 24
15	00	37.00	185 13 48	20 30 00

HR	MIN	SEC	AZIMUTH	ELEVATION
15	00	38.00	185 08 24	19 31 48
15	00	39.00	185 02 24	19 00 00
15	00	40.00	185 01 12	18 29 24
15	00	41.00	185 00 36	17 54 00
15	00	42.00	185 00 36	17 43 12
15	00	43.00	184 49 12	17 17 24
15	00	44.00	184 26 24	17 08 24
15	00	45.00	184 28 48	16 44 24
15	00	46.00	184 28 48	16 32 24
15	00	47.00	184 28 48	16 19 48
15	00	48.00	184 28 48	16 05 24
15	00	49.00	184 28 48	15 55 12
15	00	50.00	184 27 36	16 28 12
15	00	51.00	184 22 48	16 48 00
15	00	52.00	184 18 00	17 43 36
15	00	53.00	183 32 24	17 27 00
15	00	54.00	183 34 12	15 53 24
15	00	55.00	183 33 36	15 09 36
15	00	56.00	183 33 00	14 43 48
15	00	57.00	183 24 00	15 03 36
15	00	58.00	182 33 36	16 30 00
15	00	59.00	182 37 12	17 22 48
15	01	00.00	182 35 24	14 30 24